NB-66B HIGH ALTITUDE GUST SURVEY: Power Spectra

TECHNICAL DOCUMENTARY REPORT NO. ASD-TDR-63-145, Vol 11

JUNE 1963

AF FLIGHT DYNAMIC LABORATORY
AERONAUTICAL SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

19990721027

Project No. 1447

(Prepared under Contract AF 33(616)-7647

By Douglas Aircraft Company, Inc., Aircraft Division,

Long Beach, California.

Authors: J. A. Strom and T. G. Weathermon)



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FORE-KIRD

This report was prepared by the Douglas Aircraft Company, Inc., Aircraft Division, Long Beach, California, under USAF Contract Er. AF 33(616)-7647, Project Er. 1447, "High Level Turbulence." This Project is a part of the Air Force Systems Command's Applied Research Program 750A, "Mechanics of Flight." The work was administered under the Flight Dynamics Laboratory, Aeronautical Systems Division with Mr. Denver W. Mullins and Mr. Lawrence R. Phillips acting as Project Engineers.

The data gathering was a combined effort of the Aeronautical Systems Division's Directorate of Flight Test and the Douglas Aircraft Company, Inc. The operation and maintenance of the test aircraft was the responsibility of the Directorate of Flight Test under Capt. C. D. Smith, Jr., the Project Pilot. The aircraft instrumentation, data recording and data reduction was the responsibility of Douglas Aircraft Company, Inc., Flight Test Division under Mr. J. C. Londelius. Douglas Project Engineers were Mr. T. C. Maughton and Mr. J. A. Strom.

Data defining gust intensities and frequencies from 109 high altitude storm penetrations flown during the Rough Rider II and III phases of the 1961 National Severe Storms Project are included in this report.

This is the final report under Contract AF 33(616)-7647. The Contractor's report number is LB-31236.

ASD-TOR-43-145 YOLUME 11

ABSTRACT

Volume II contains the power spectra plots for vertical, lateral and forward gust velocities corrected for airplane motion, followed by the power spectra plots of uncorrected vertical and uncorrected lateral gust velocities. The data presented were obtained from 109 high altitude storm penetrations in which the length of runs varied up to 240 seconds. The data were sampled 25 times per second and the autocorrelation function was computed for 125 phase shifts.

PUBLICATION REVIEW

This report has been reviewed and approved.

FOR THE COMMUNICATION

RICHARD F. HOENER

Chief, Structures Branch Flight Dynamics Laboratory

ASD-TOR-43-145 YOLUME 11

TABLE OF CONTESTS

List of Power Spectral Plots

Flight Bo.	Penetration No.	<u>Page</u>
200 1Å	•	1
36 14	5	3
10 14	6	5
10 15	1	7
NO 15 NO 15 NO 15	2	5
20 15	2	10
10 19	i i	\vec{n}
30 19	5	12
10 19	6	13
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BG 27	2	48
BG 27	3	53
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BG 27	Ĭ.	65
BG 27	ğ	72
BG 27	10	74
BG 27	11	78
BO 27	15	82
BG 27	14	88
EG 27	15	6 4
BG 27	15 16	98
BO 28	1	102
BG 28	2	107
BC 26 BC 26	1 2 3 4 5 6 7	38 48 53 57 65 68 72 74 82 86 99 98 107 112 117 121 131 135
20 26 20 26	• 5	777
EG 28	6	127
BG 28	7	131
20, 26	8	135

List of Power Spectral Plots (Continued)

Flight No.	Penetration No.	Page
80 28	9 10	139 143
EG 28	19	147
30 26	ii ii	151
26 26	15 16	155 159 163
300 28 300 29	16	163 167
30 29	1 2 3 4 6 7	172
100 29 100 29	3	177
BO 29	6	187 192
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30 29	9	199
BO 29	17 10 3	නා නෑ
BO 29	12	205
\$10 29 \$10 29	13 14	207 212 217
BO 29	15 16	217
EG 29	16 17	531 531 535
BG 29	17 18	231
BC 29 BC 31	20 1	236 241
BO 31	1 2 3 4	246
BG 31 BG 31	3	248 253
HG 31	5	258 263
BG 31 BG 32	1	203 267
EG 32	2	272
HG 32	1 2 3 4	2 <u>11</u> 262
EG 32	5 6	æ6 æ1
EG 32	7 8	230
EG 32	8	301 306
HG 32	9 10	311
HG 32 HG 32	11 12	31 6 321
EG 32	13	326
30 32	14	331

List of Power Spectral Plots (Continued)

Plicht Bo.	Penetration No.	Pose
30 32	15	336 341 346 351 356 361 371 376 381 386 391 401 406 411
33	1	341
33	2	346
MG 33	2 4	351
m 11	Ś	356
m 33	6	361
33 33 30 35	5 6	366
20 JJ	ž	371
20 35 20 35 20 35 20 35 20 35 20 37 20 37	7 9	376
20 32	10	981
33 35		386
35	\mathbf{n}	200
37	1	237
37	2	220
DE 31	3	407
BO 37	2 3 4 6	406
30 37		411
90 37 90 37	7	\$16 \$21
BG 37 BG 37	8	421 _'
37	9	426
37	10	431

LIST OF STORES

- AT Time difference between each point in the time series, see.
- N Number of phase shifts for which the autocorrelation function was computed.
- Number of data samples in the time series from which the spectra was computed.

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LIST OF VOLUMES

Aorne I

General discussion of the high altitude survey.

Sections

- 1. Summary of parameters for each penetration.
- One-dimensional frequency distribution of the peaks for vertical, lateral and forward gust velocities.
- 3. Composite power spectra plots of vertical, lateral and forward gust velocities.
- Power spectra comparison plots of vertical, lateral and forward gust velocities.
- 5. Pilots' flight reports.
- Cross-spectra plots, autocorrelations, time series plots and two-disensional frequency distribution of the peaks from four severe penetrations.

Appendix

- I. General description of the A076 statistical analysis program.
- II. Explication of the IBM printout format.

AOTING II

Power spectra -- plots of vertical, lateral, forward, uncorrected vertical and uncorrected lateral gust velocities.

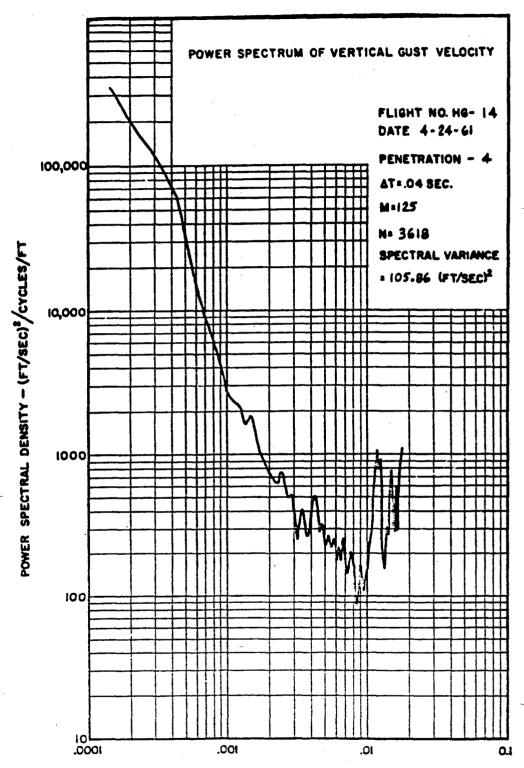
AOTING III

Time series -- plots of gust velocities, airspeed, altitude, temperature and normal acceleration.

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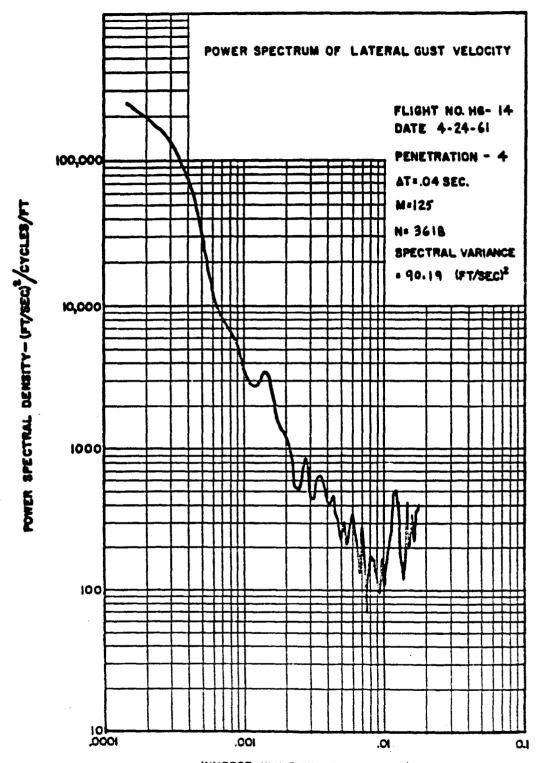
BASIC DATA -- IBM PRINTOUT

Book	Flight Wo.	Penetration No.
1	HG 14 HG 15 HG 19	2, 3, 4, 5, 6 1, 2, 3, 4 4, 5, 6, 7
2	BO 22	1, 2, 4, 5, 6, 7, 9
3	NO 22 NO 27	10 1, 2, 3, 5, 6, 7, 8, 9, 10, 11
•	NG 27	12, 13, 14, 15, 16 1, 2, 3, 4
5	EG 28	5, 6, 7, 8, 9, 10, 12, 13, 14
6	80 28 80 29	15, 16 1, 2, 3, 4, 6, 7
7	BG 29	8, 9, 10, 11, 12, 13, 14, 15, 16
8	HG 29 BG 31	17, 18, 20 1, 2, 3, 4
9	EG 31 EG 32	5, 6 1, 2, 3, 4
10	EO 32	5, 6, 7, 8, 9, 10
11	BG 32	11, 12, 13, 14, 15
12	BG 33	1, 2, 4, 5, 6
13	HG 35 HG 37	6, 7, 9, 10, 11 1, 2, 3
14	EG 37	4, 6, 7, 8, 9, 10

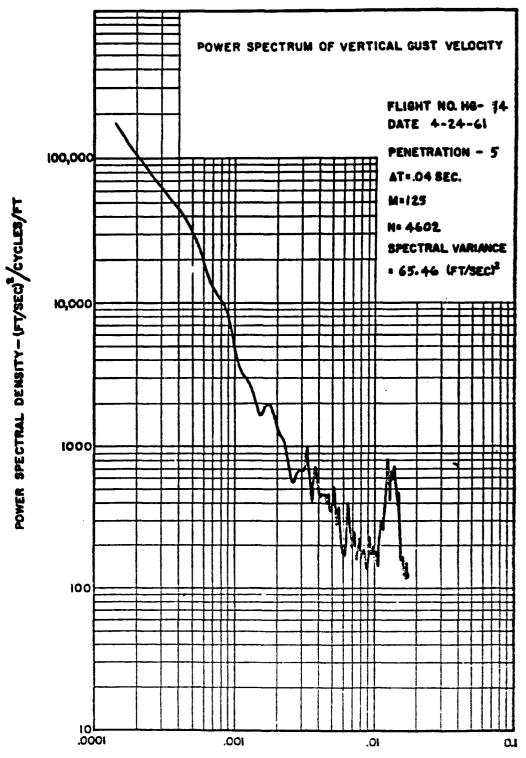


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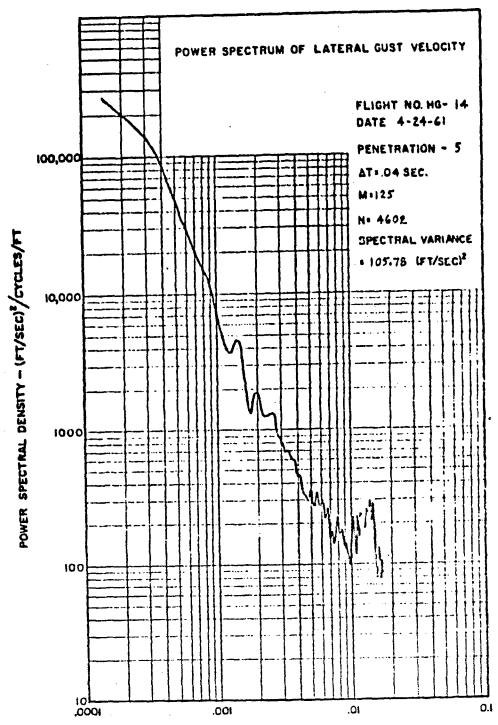
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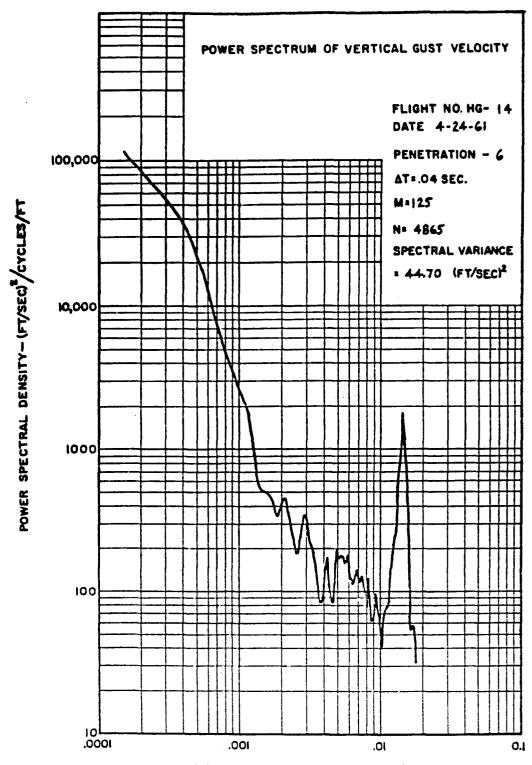


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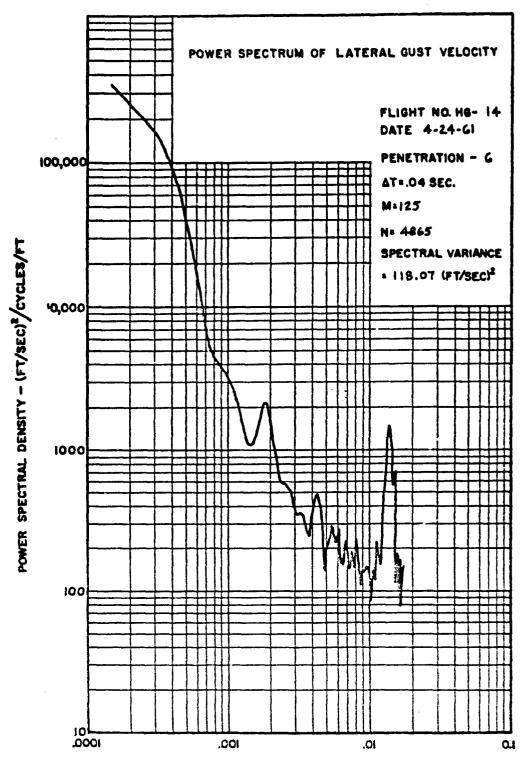
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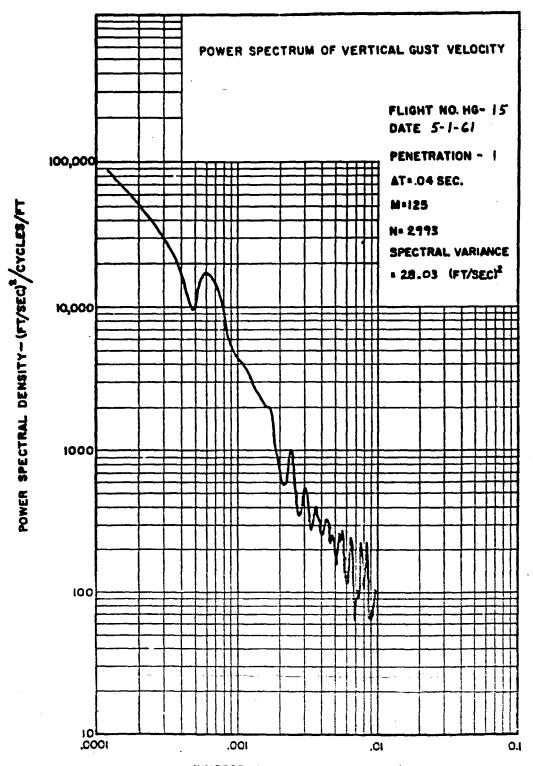
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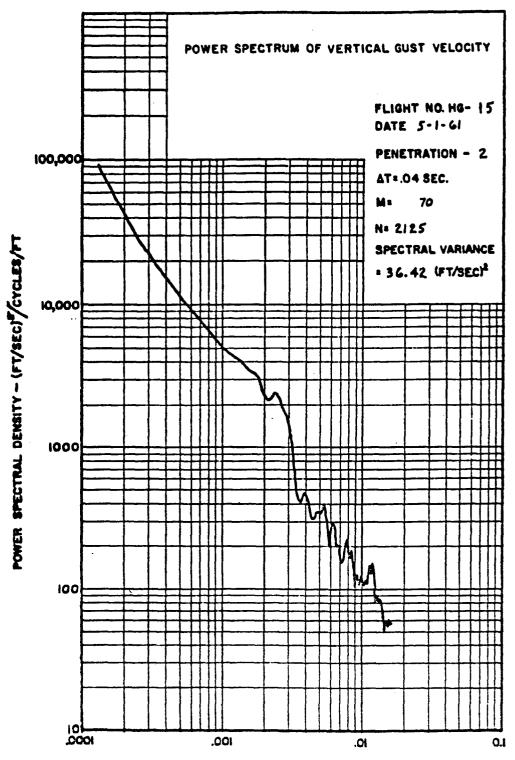
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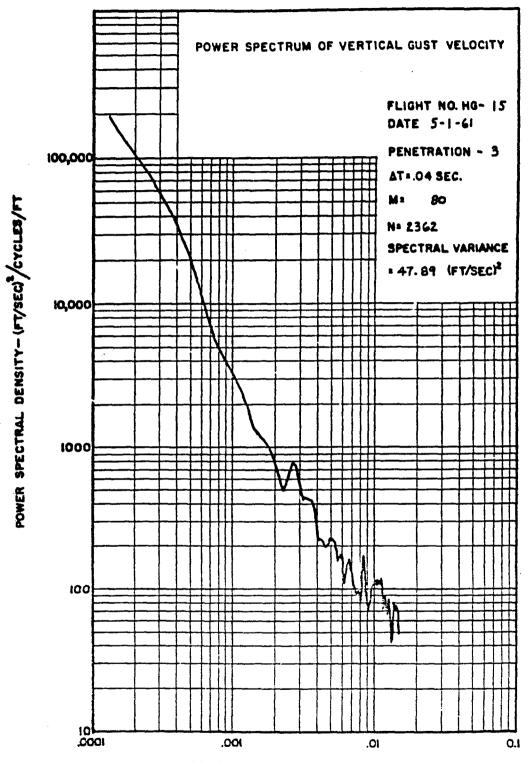
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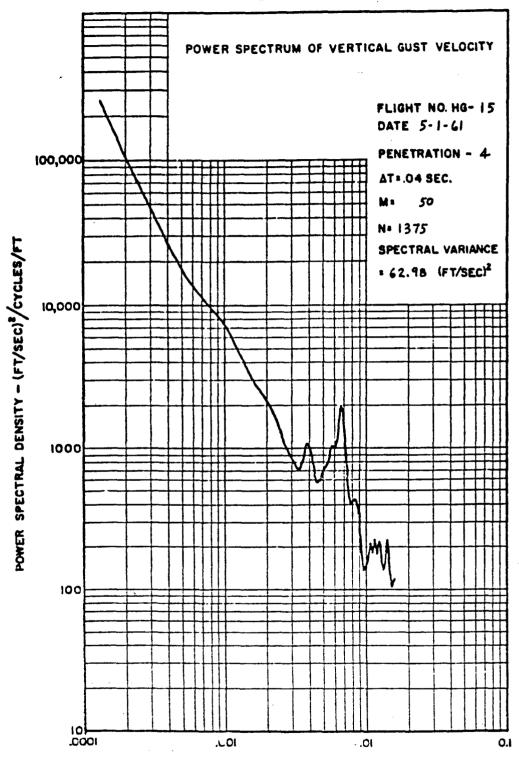
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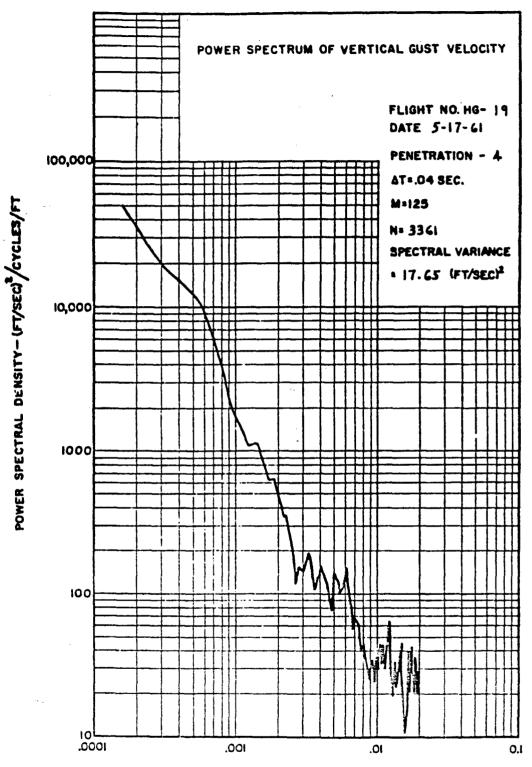
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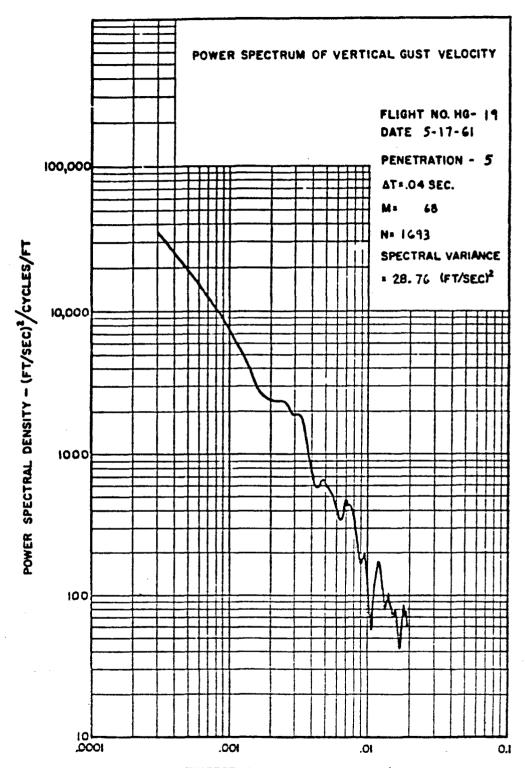
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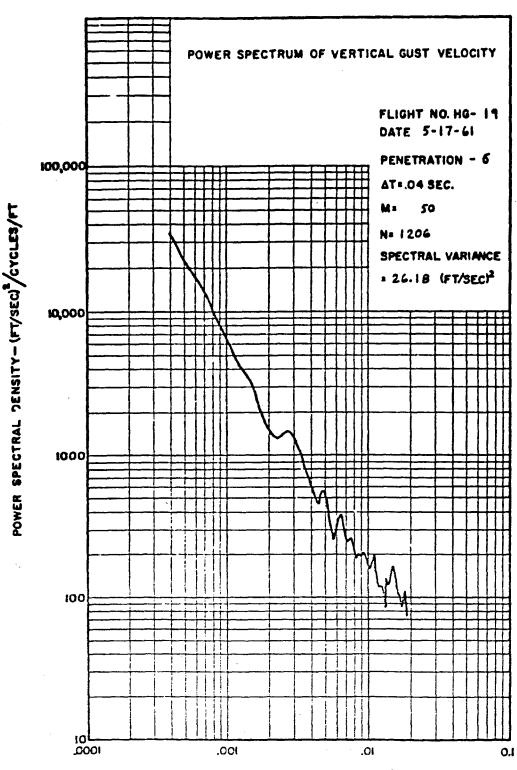


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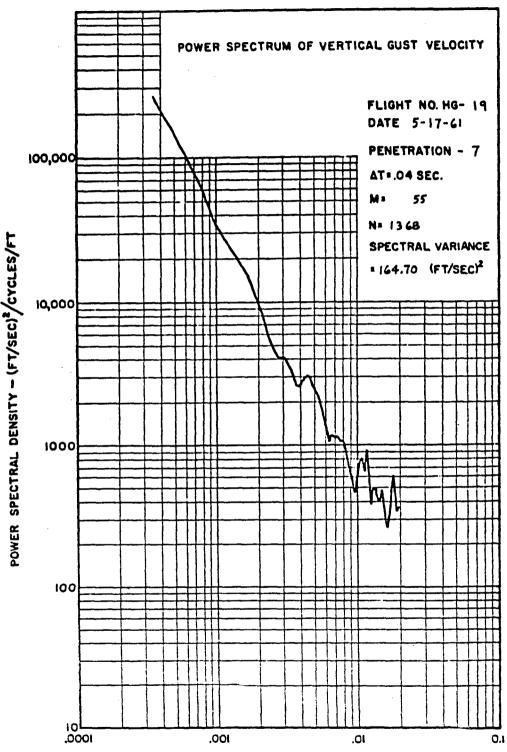
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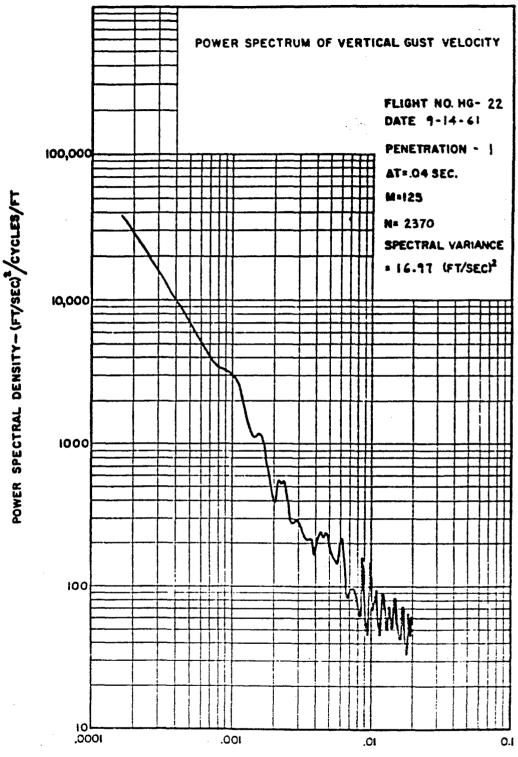
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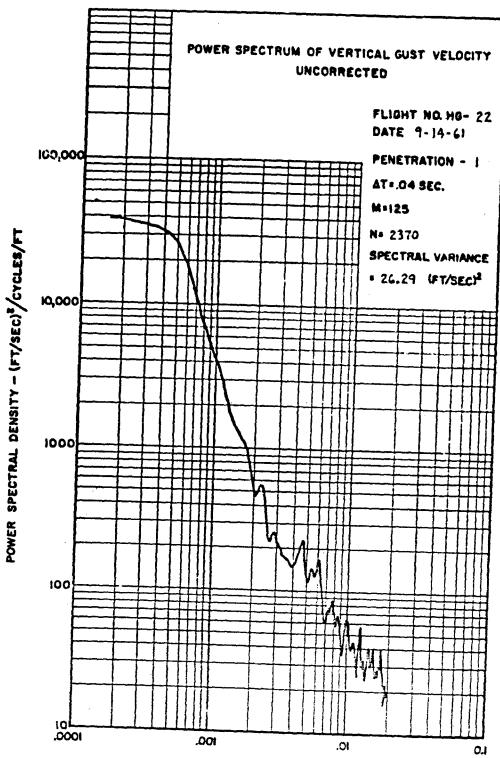
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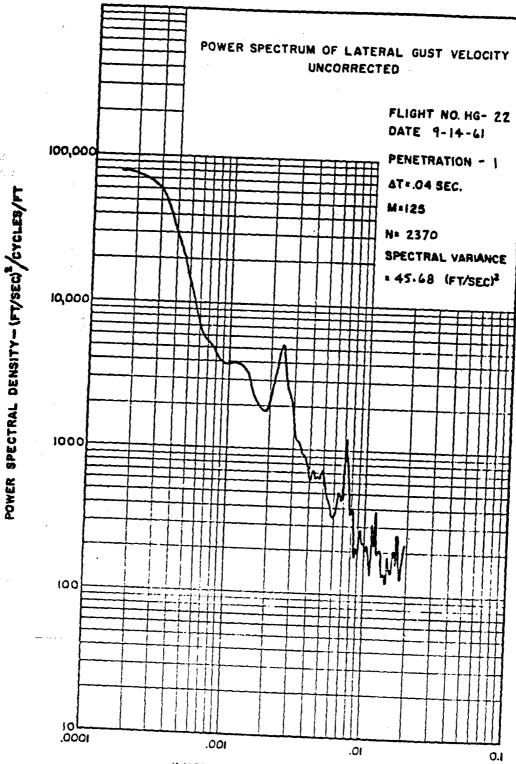
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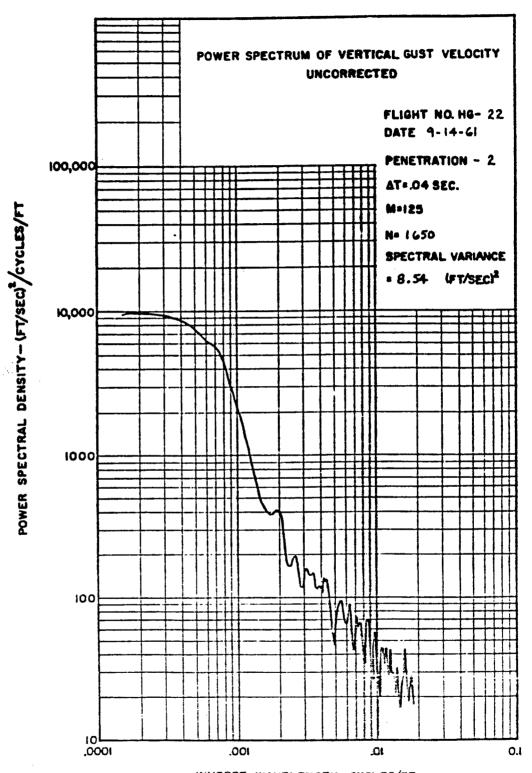
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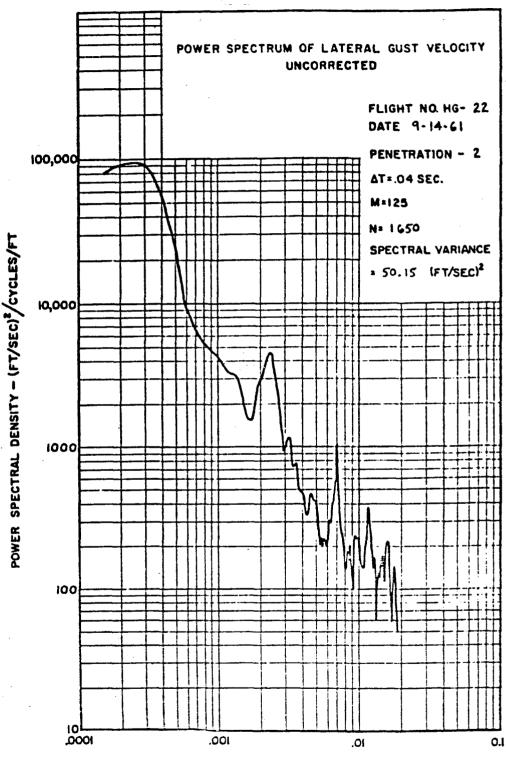
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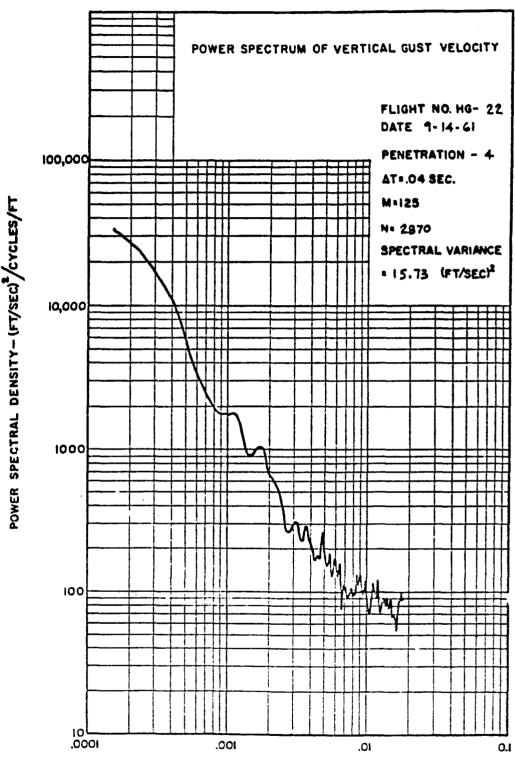


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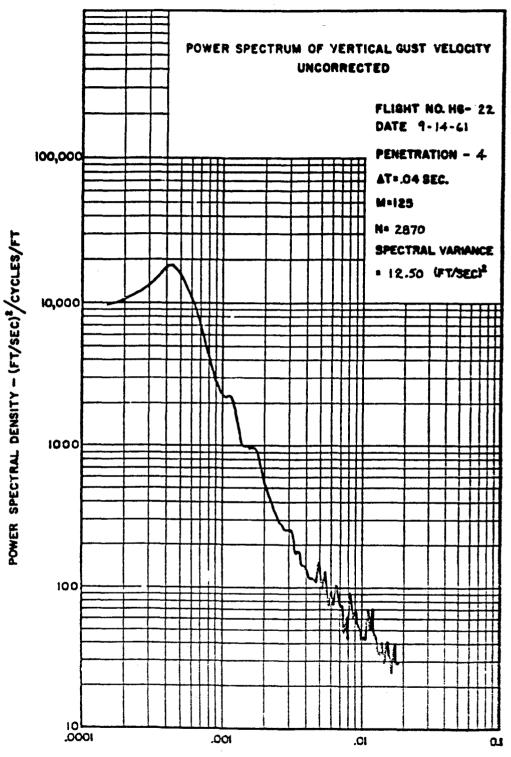


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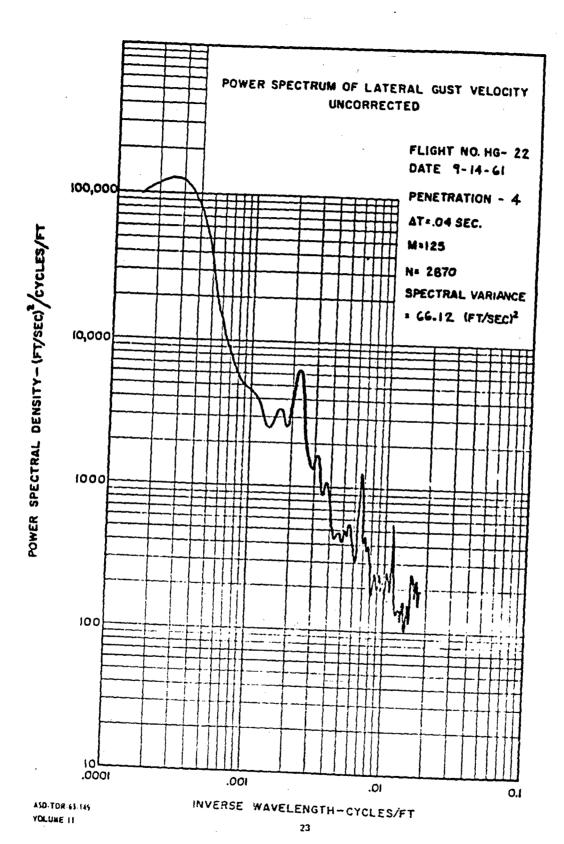


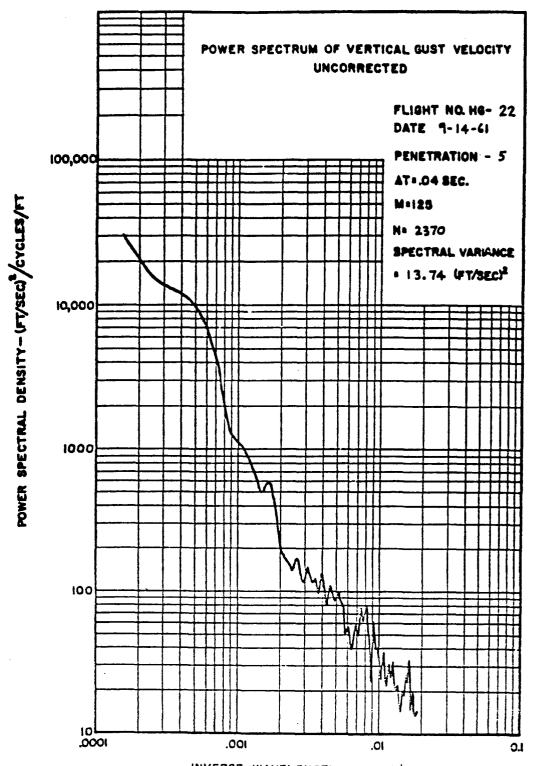
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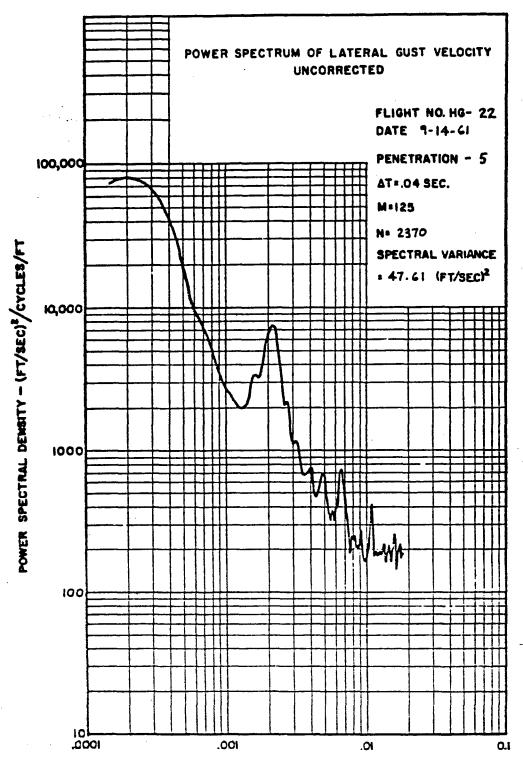
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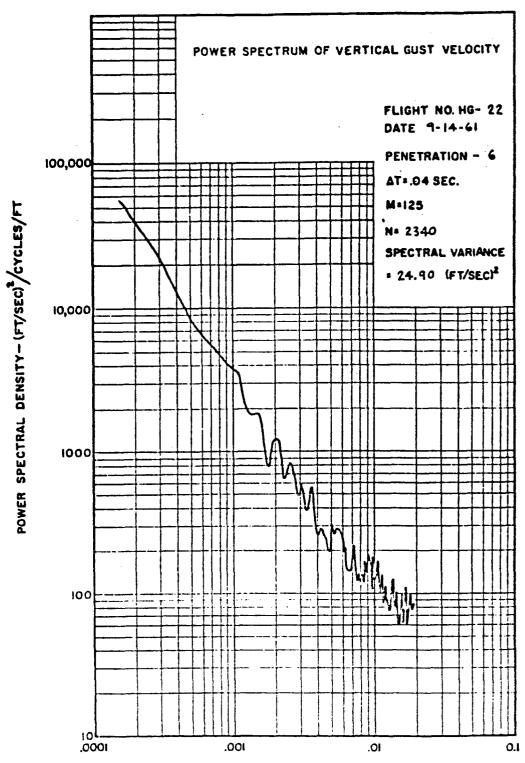
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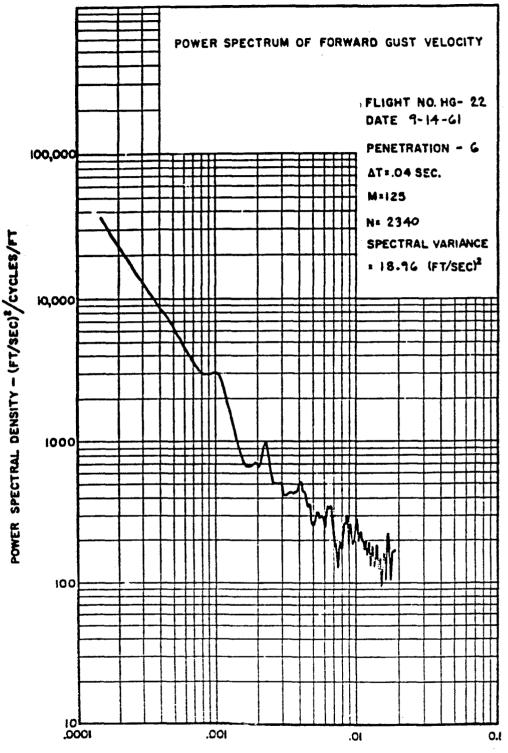
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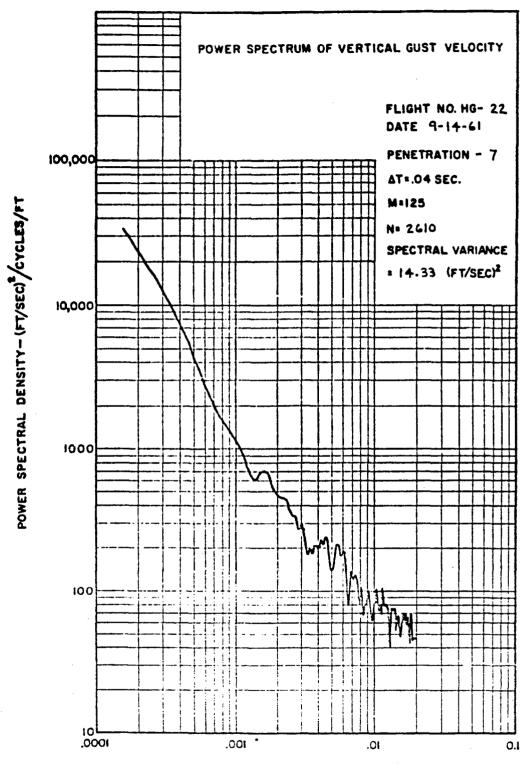
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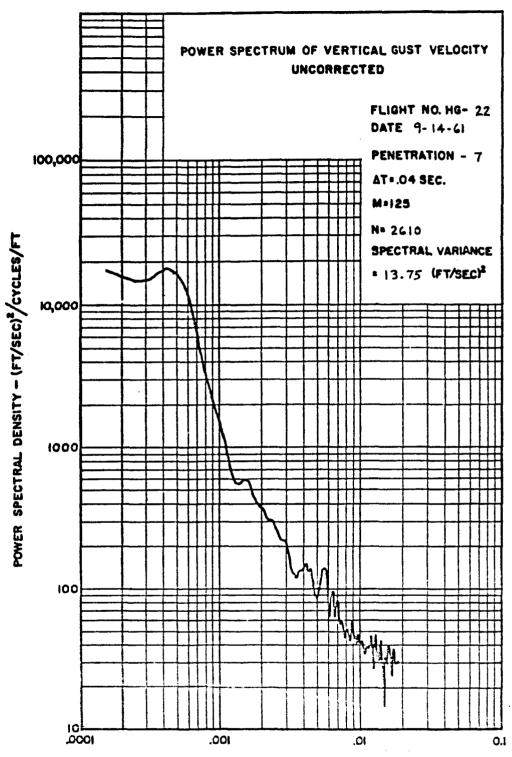
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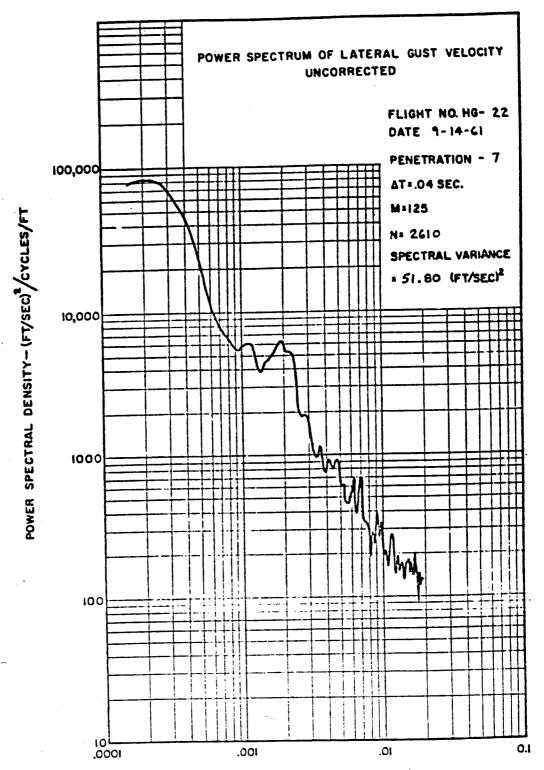
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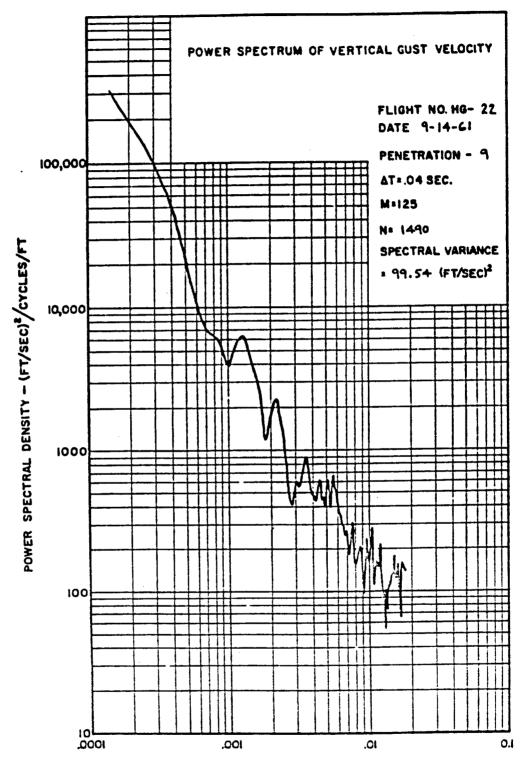
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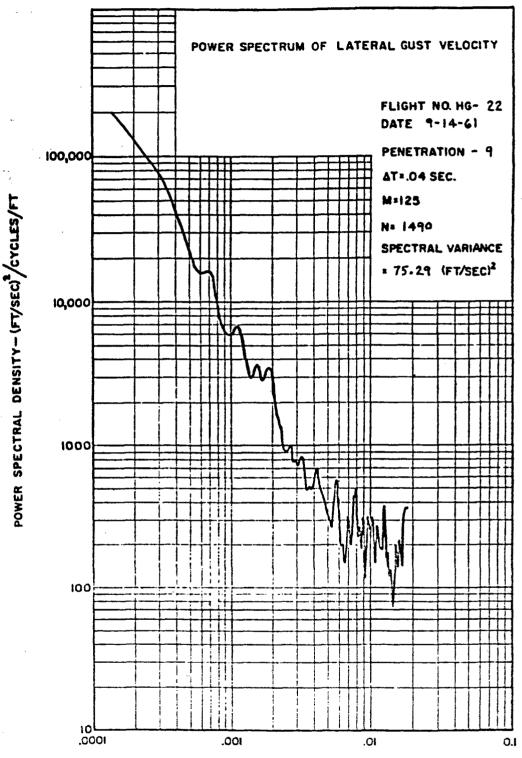
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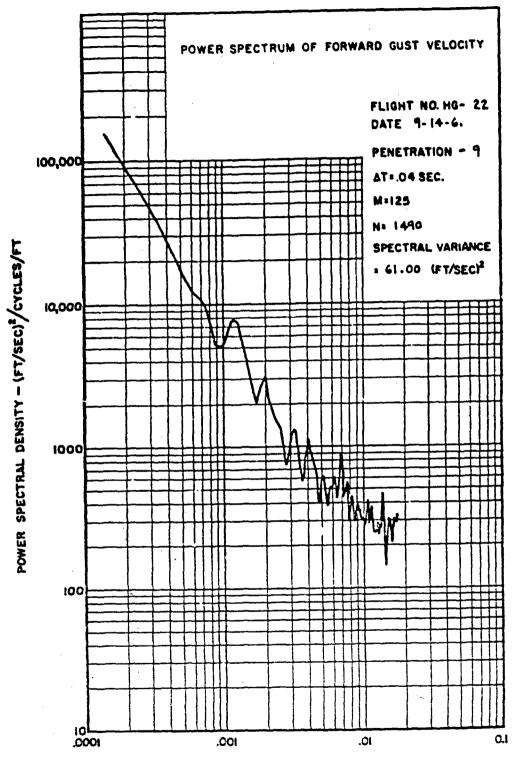
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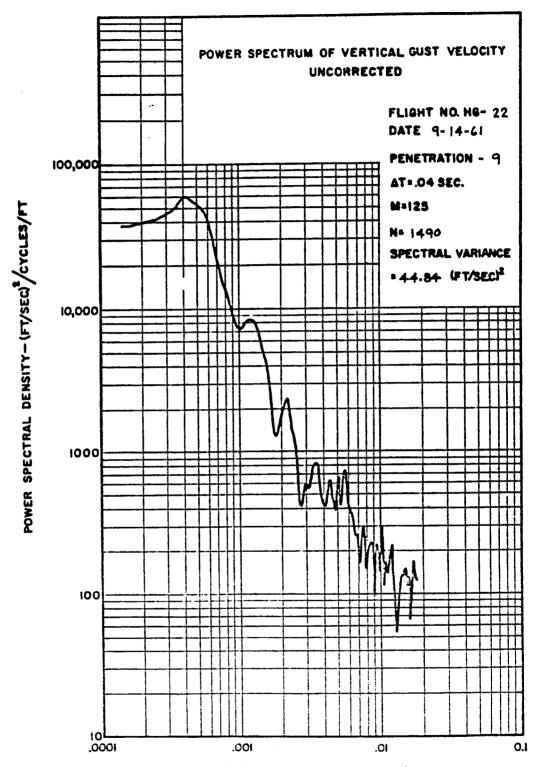
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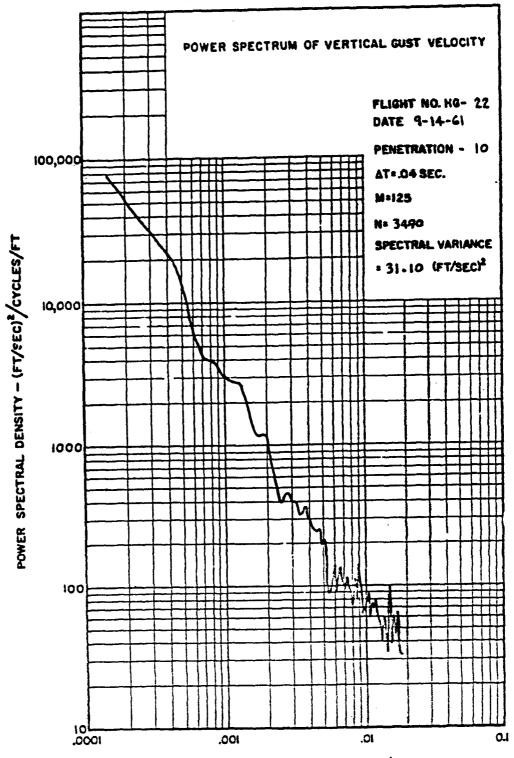
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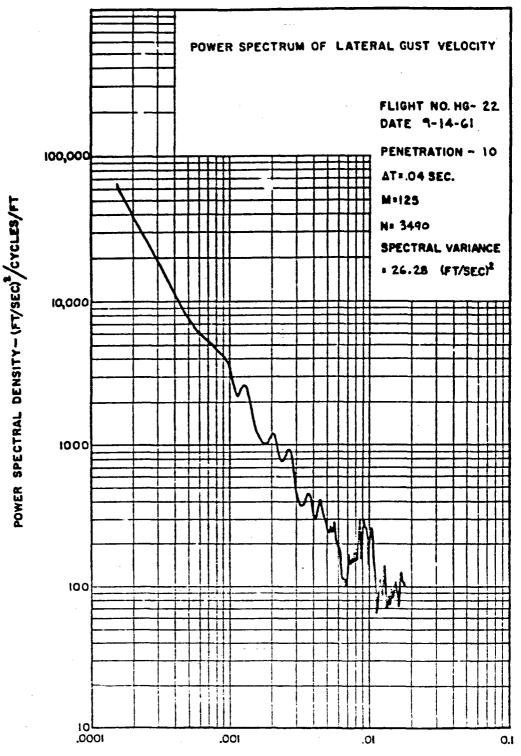


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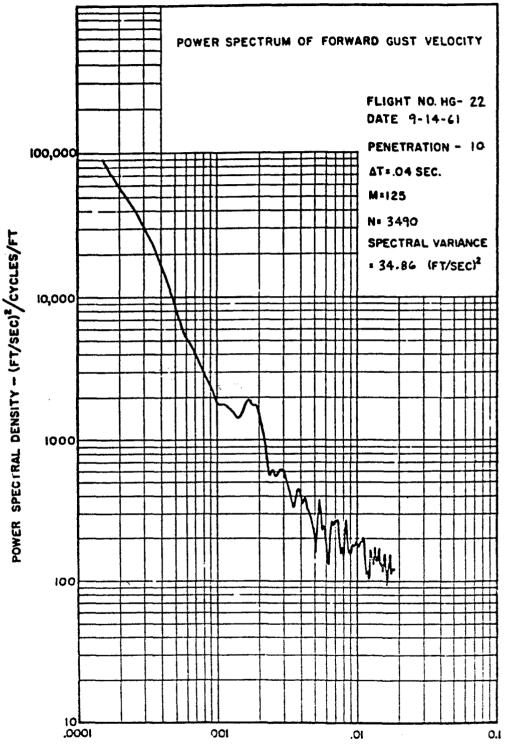
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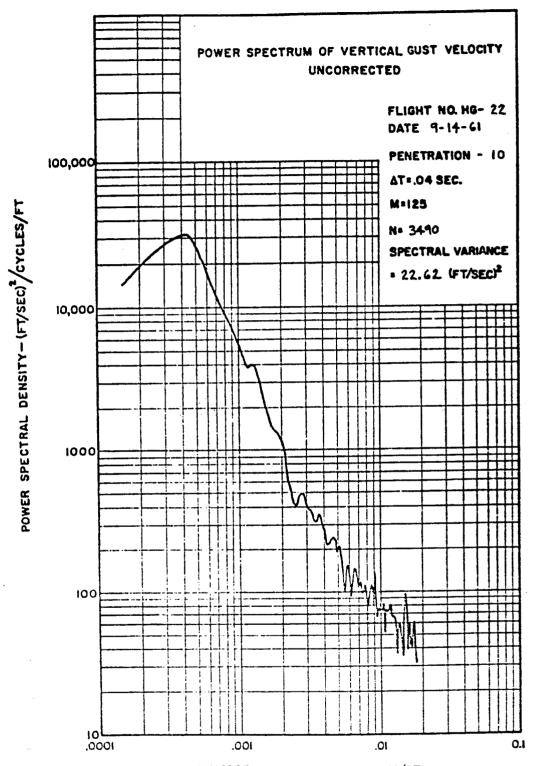
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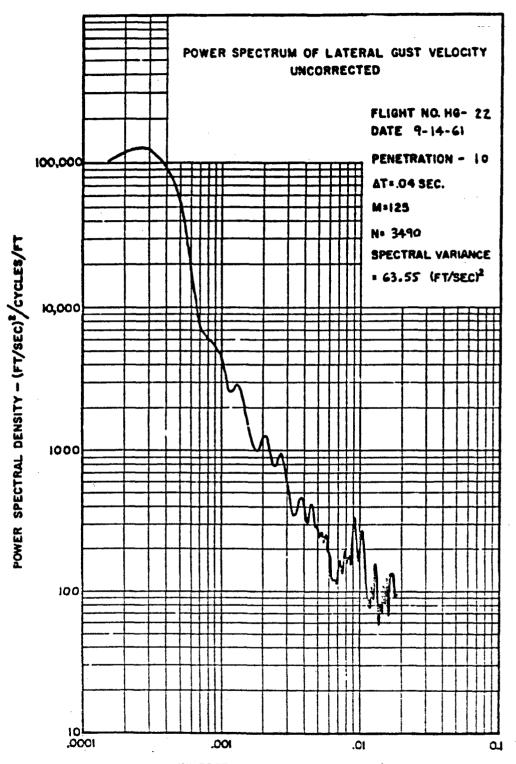


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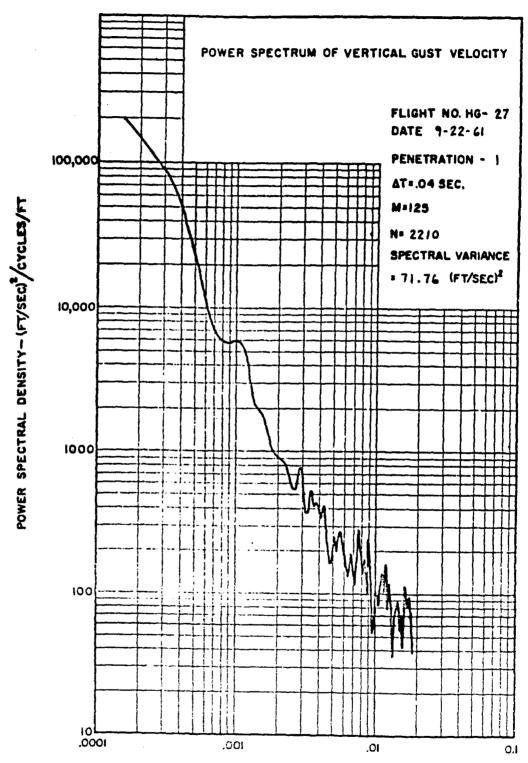


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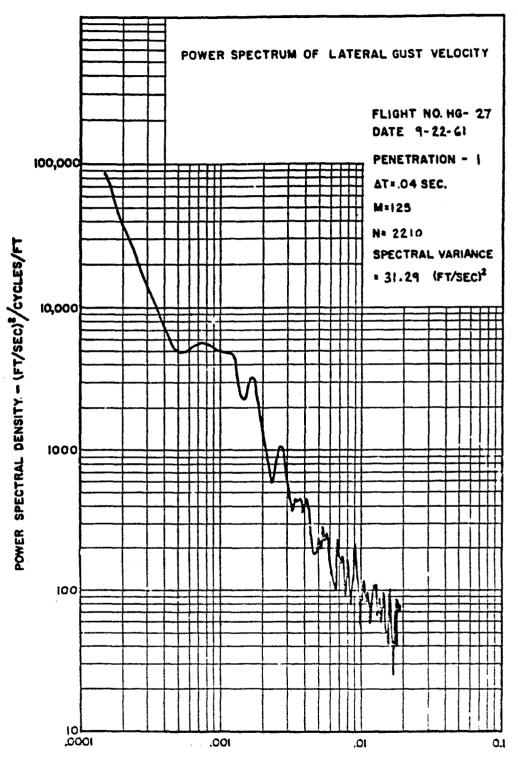
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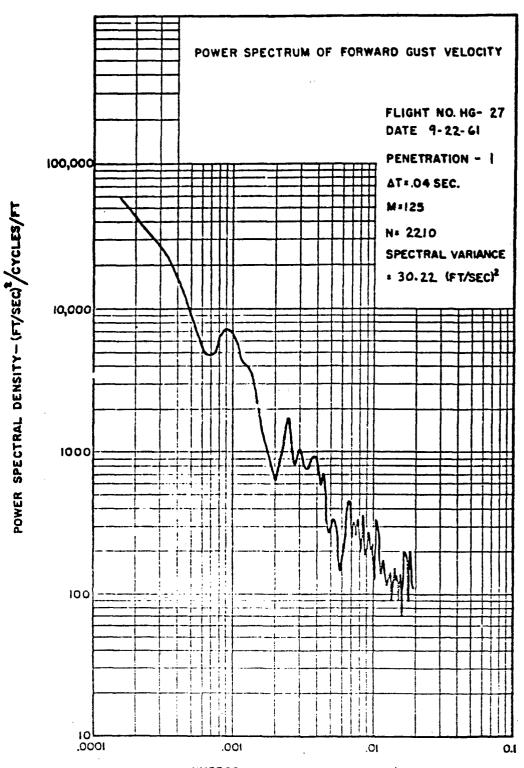
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INVERSE WAVELENGTH-CYCLES/FT

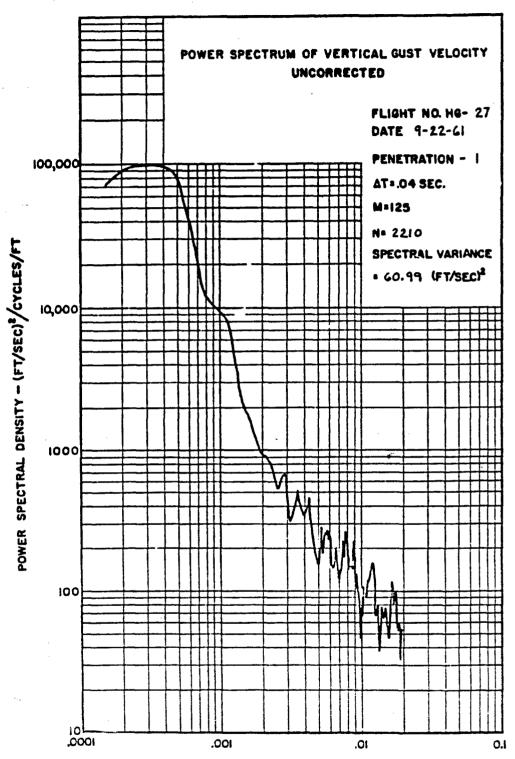


INVERSE WAVELENGTH-CYCLES/FT

ASO-TOR-43-145 YOLUME 11

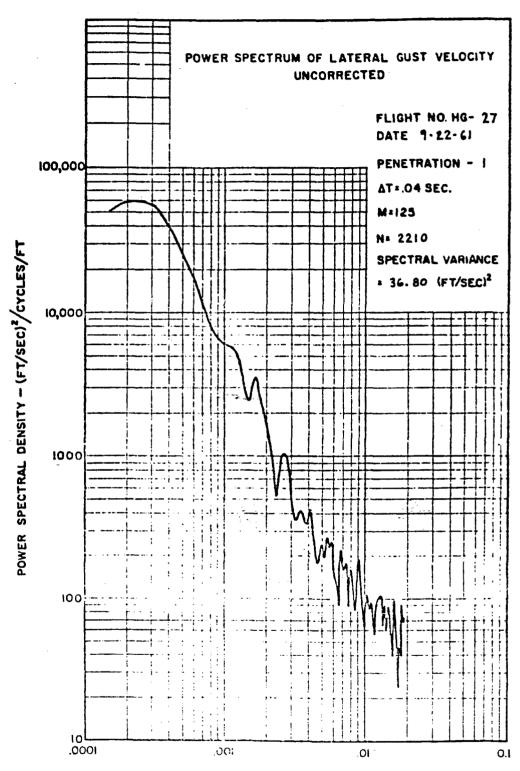


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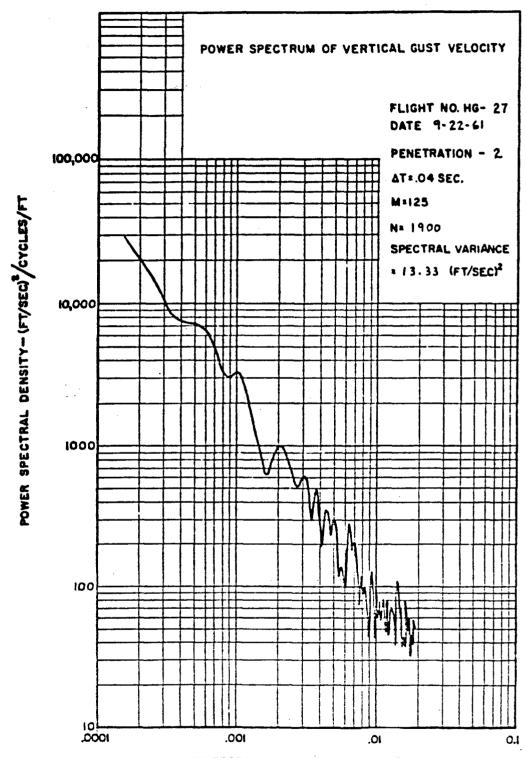
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ASD-TDR-43-145 YOLUME 11



ASD TOR 63 145 VOLUME 11 INVERSE WAVELENGTH-CYCLES/FT

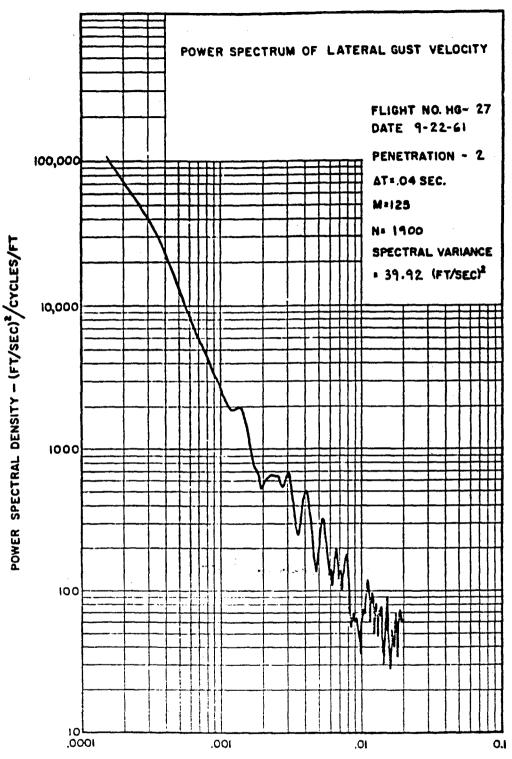
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ASO-TOR-43-145 VOLUME 11

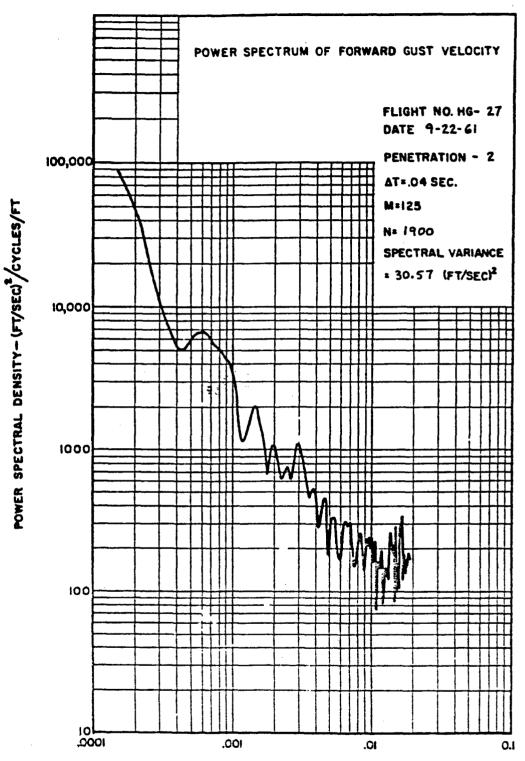
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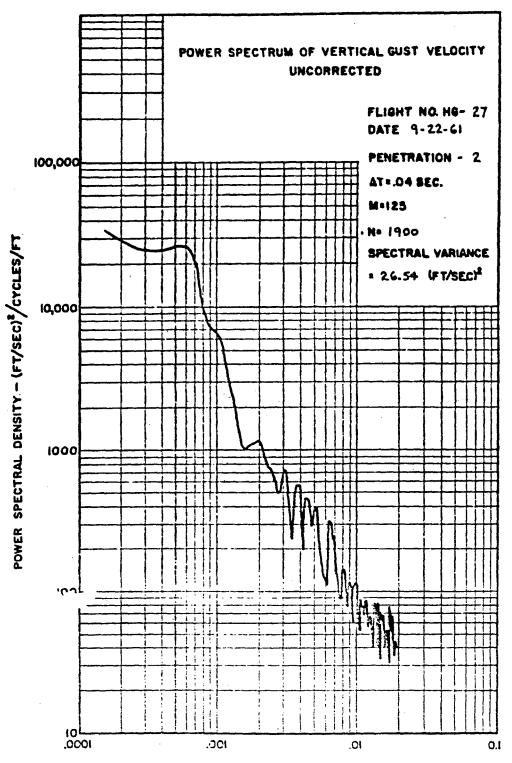
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ASO TOR 63 145 YOLUME 11

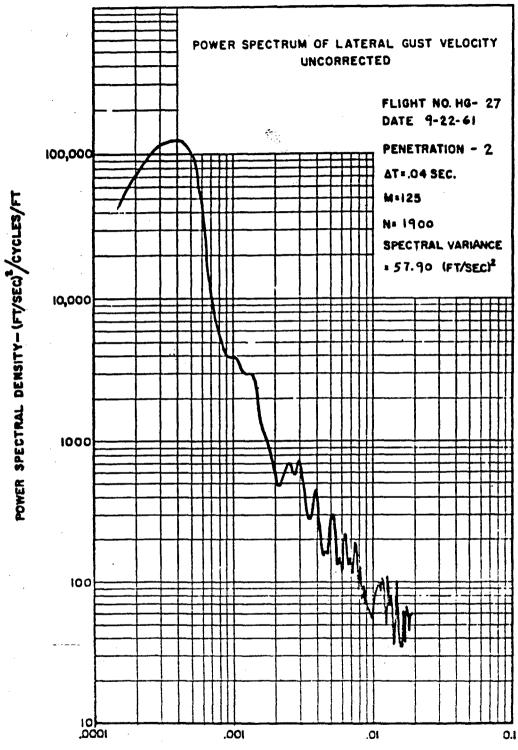


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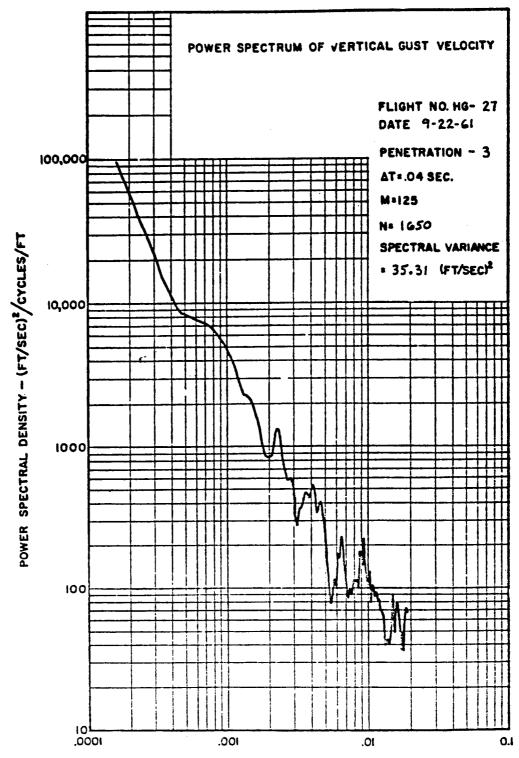


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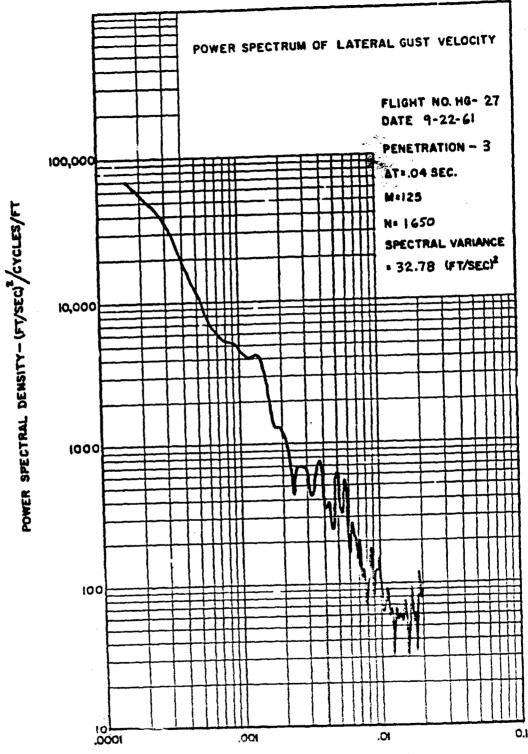
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INVERSE WAVELENGTH-CYCLES/FT

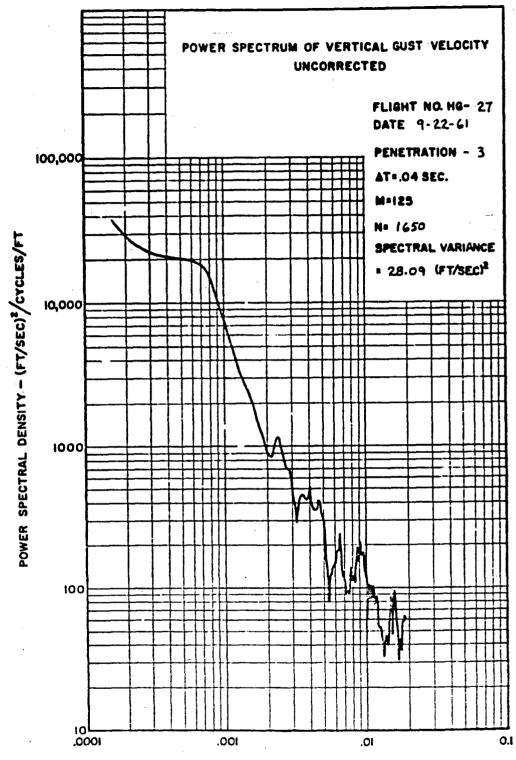
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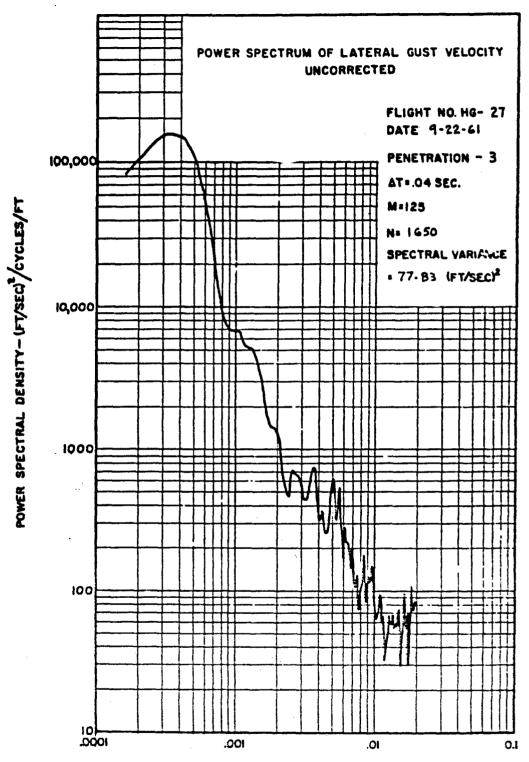
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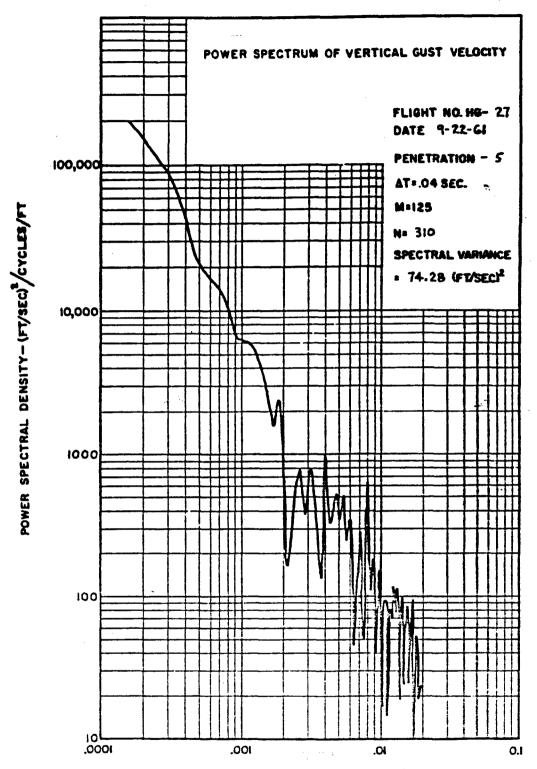
INVERSE WAVELENGTH-CYCLES/FT

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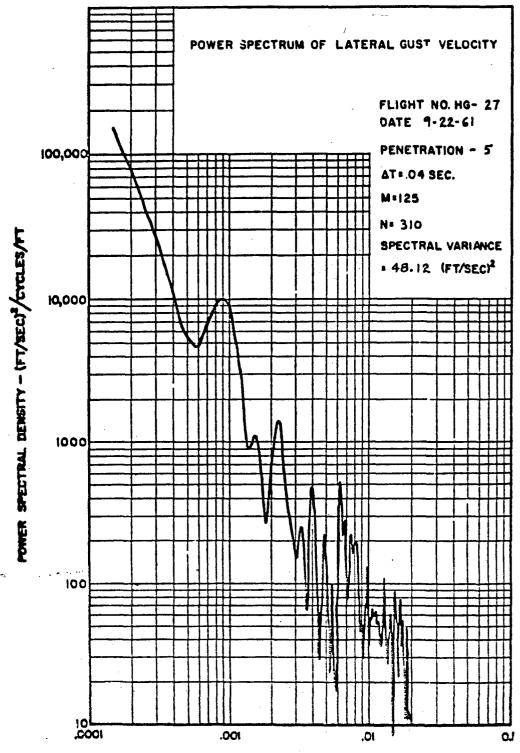
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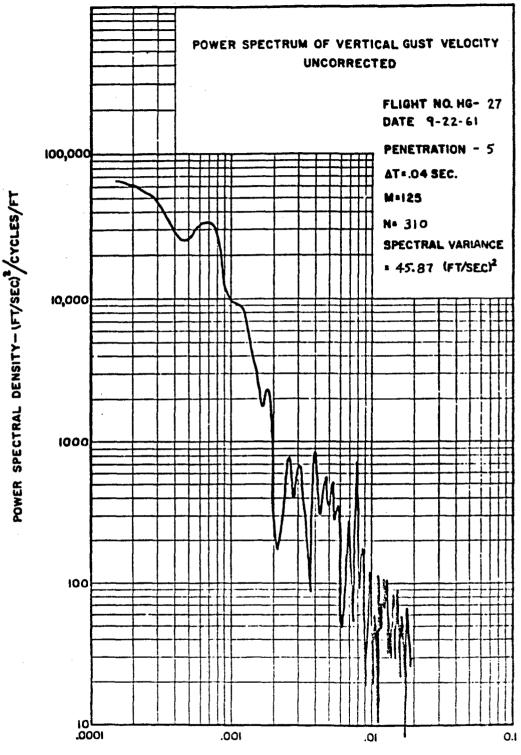
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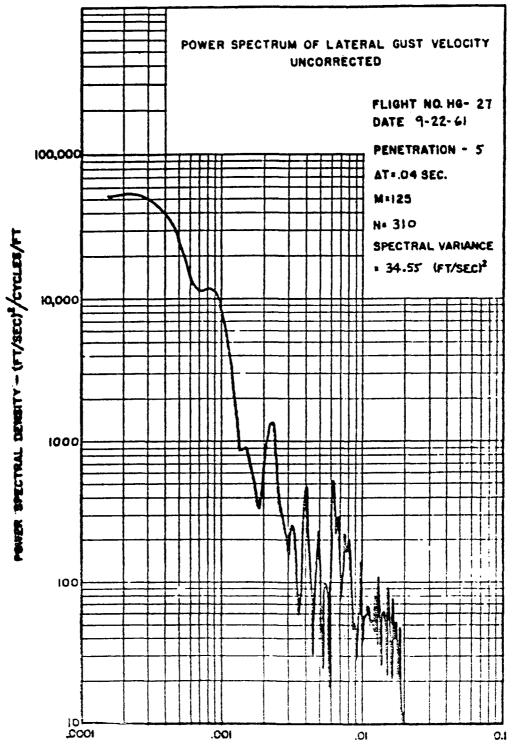
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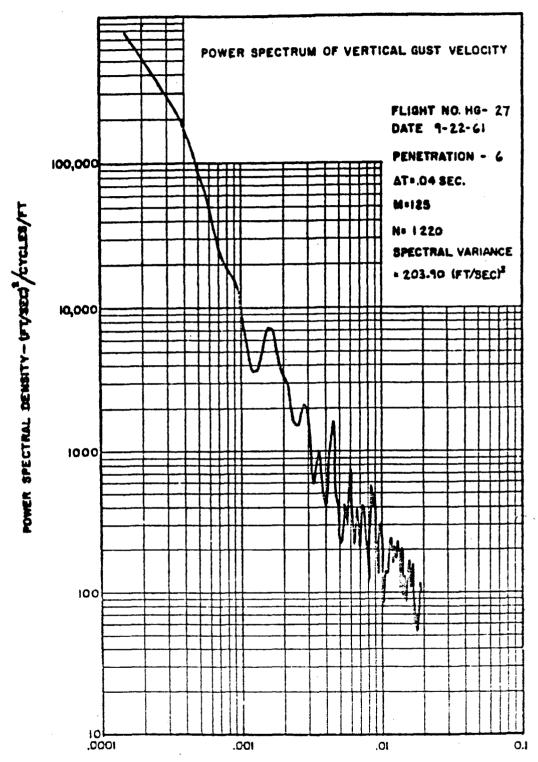
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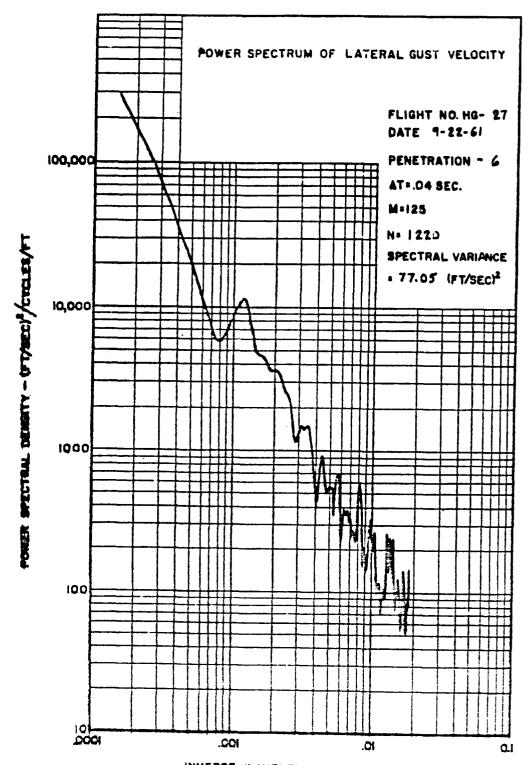
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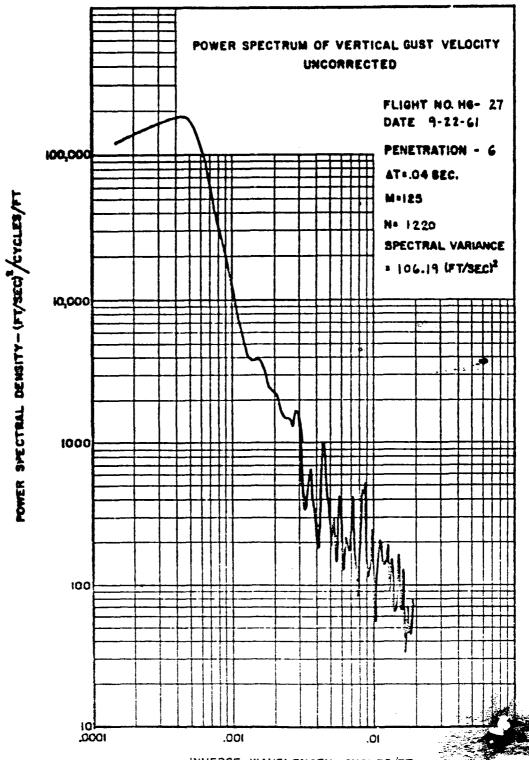
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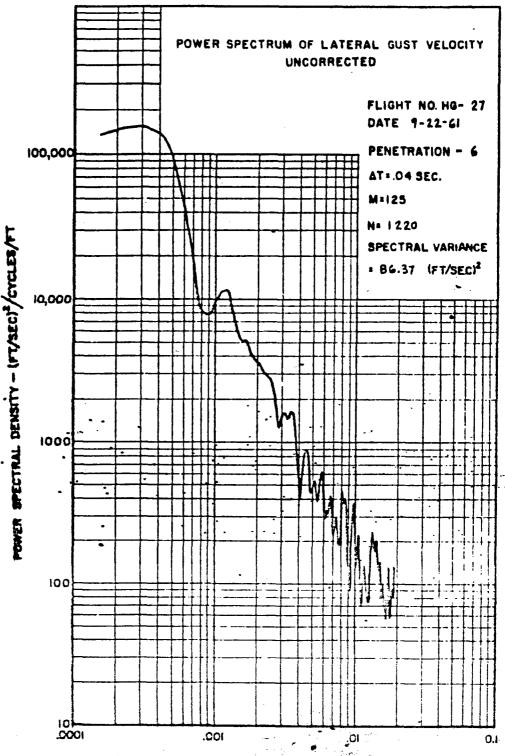


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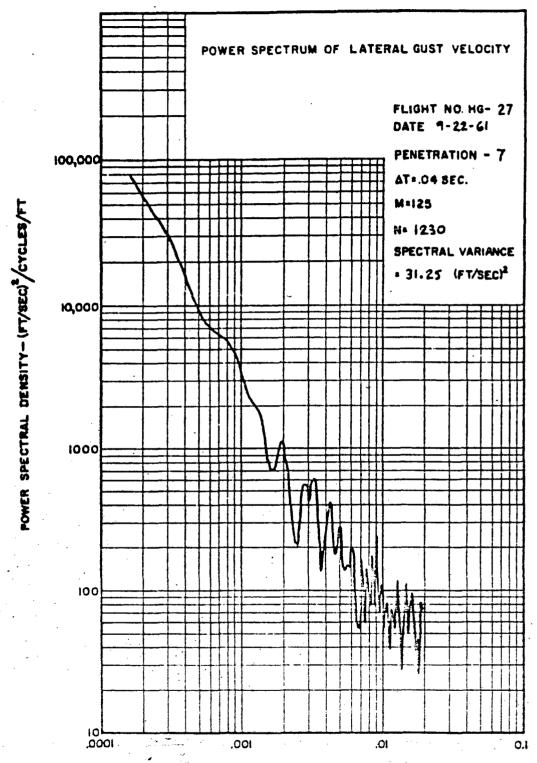
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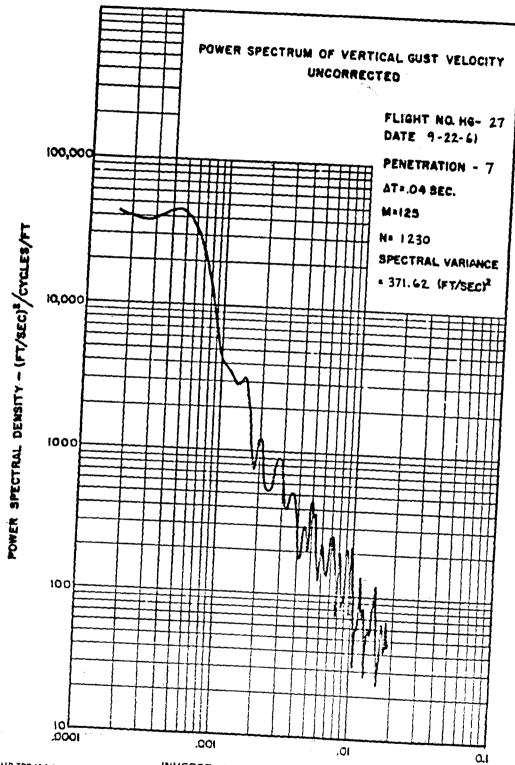


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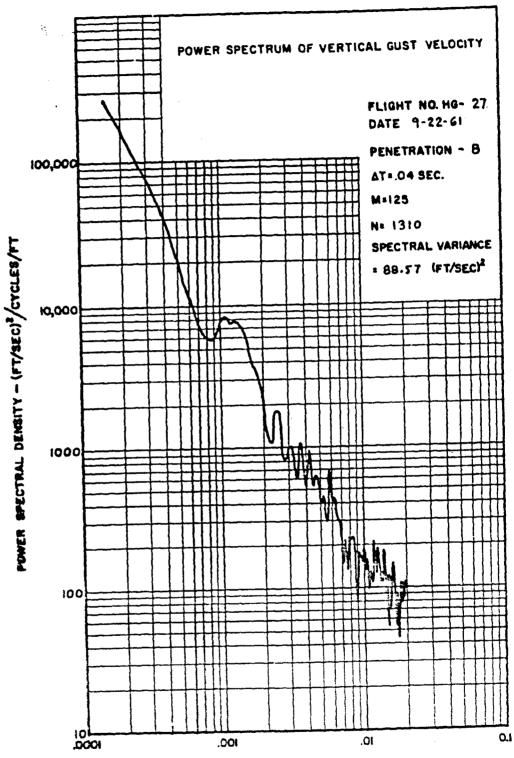
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INVERSE WAVELENGTH-CYCLES/FT

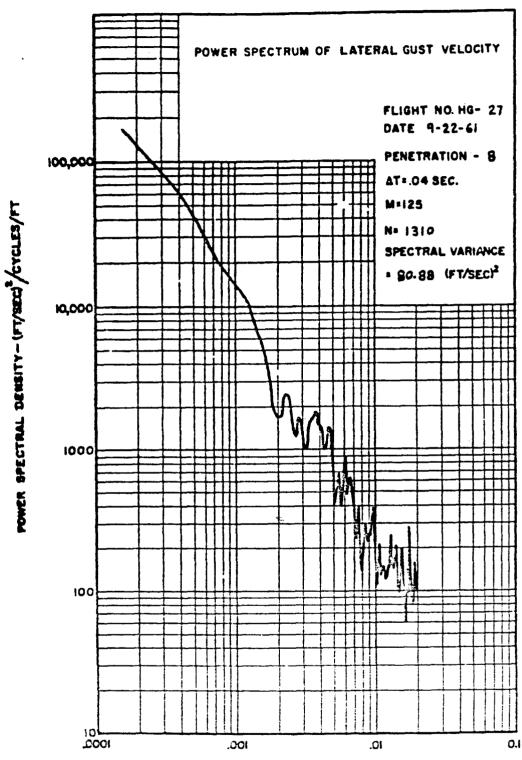


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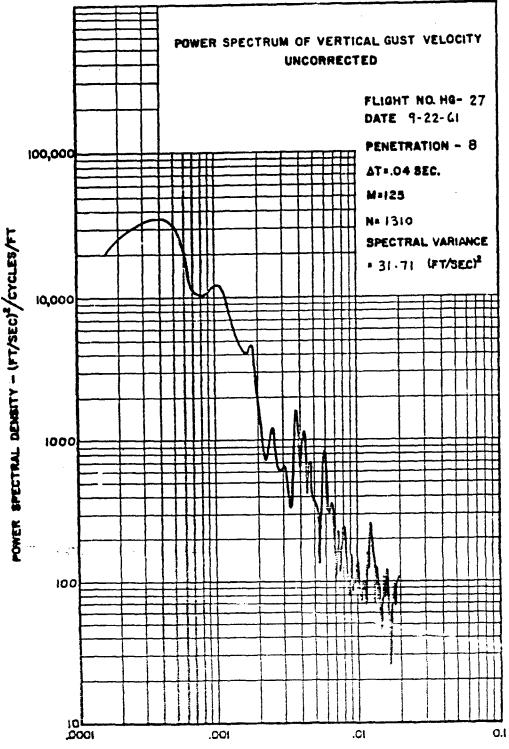
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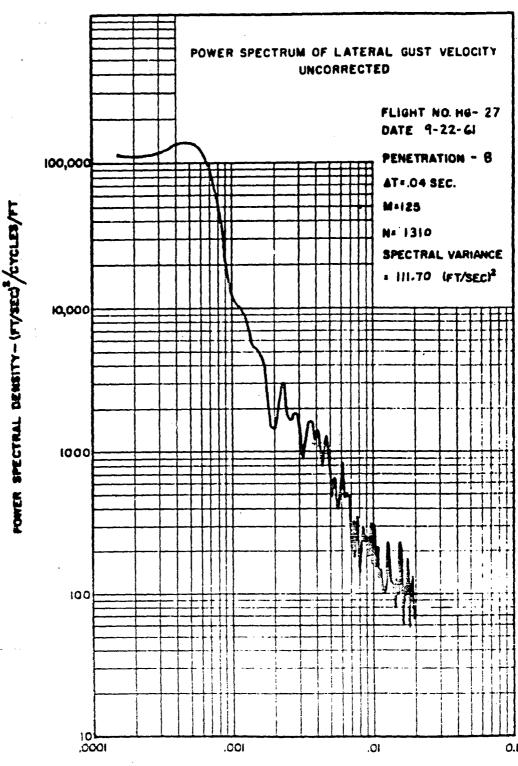
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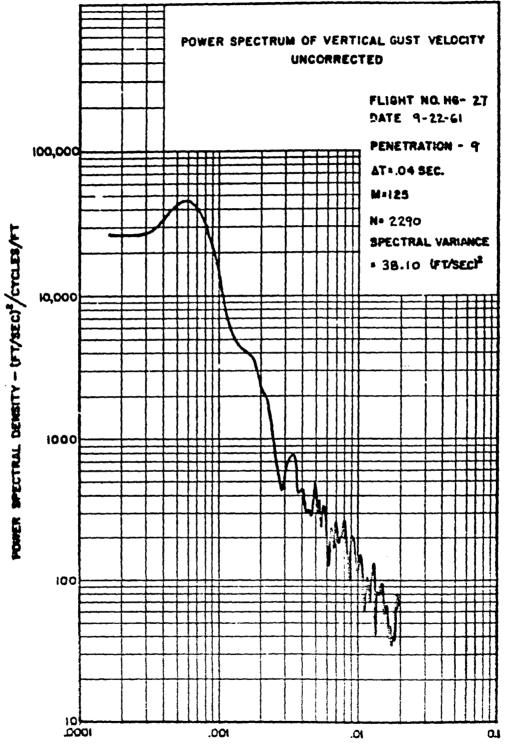
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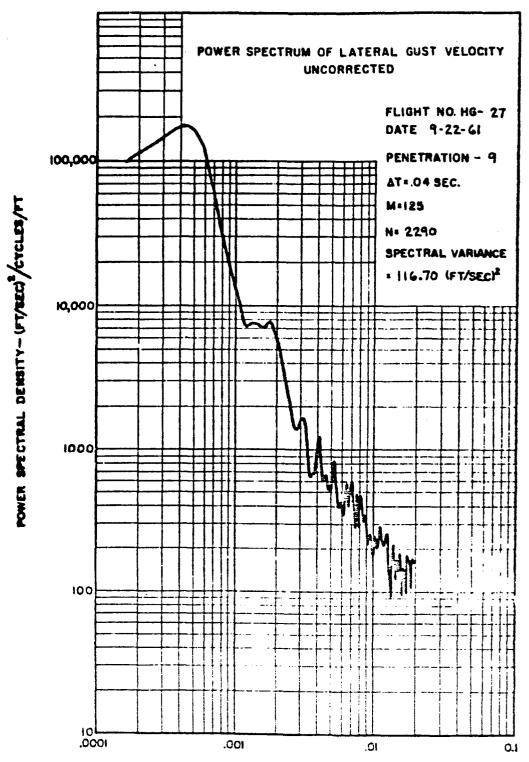


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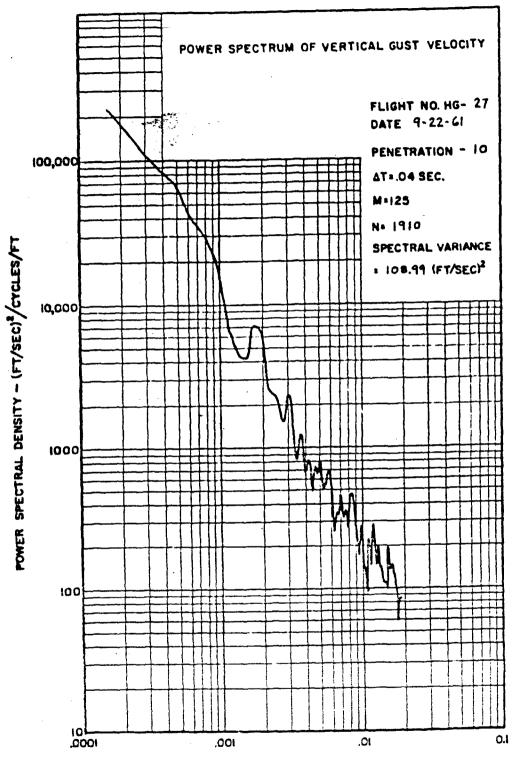


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INVERSE WAVELENGTH-CYCLES/FT

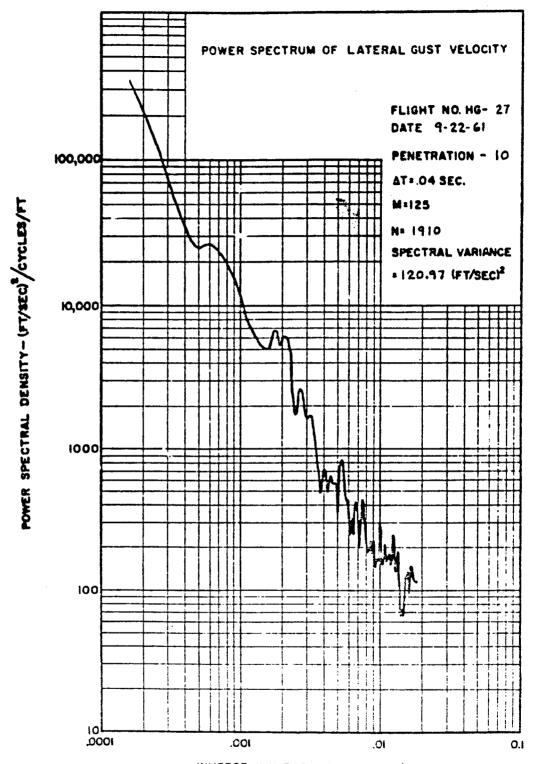


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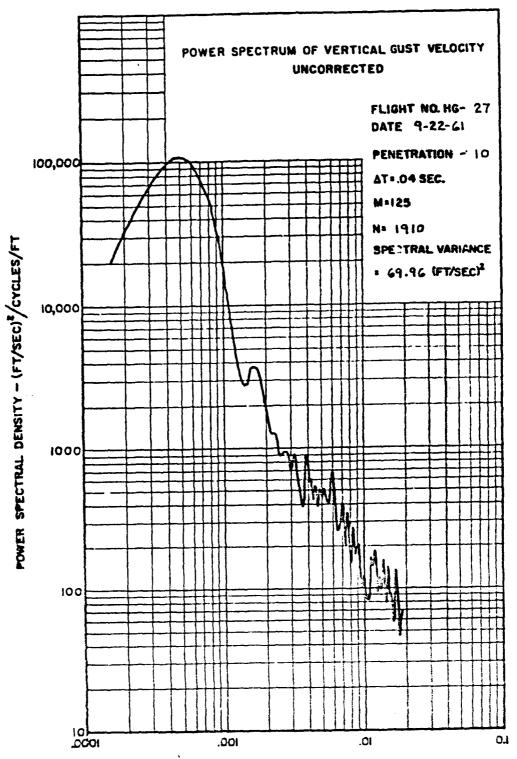
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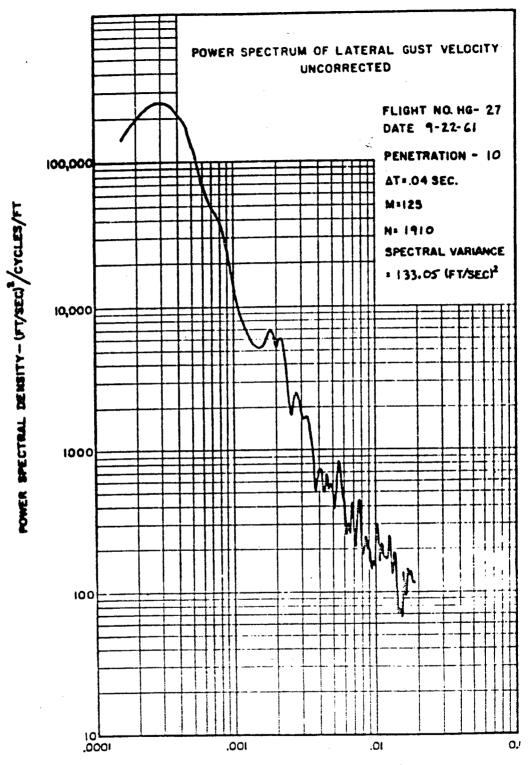


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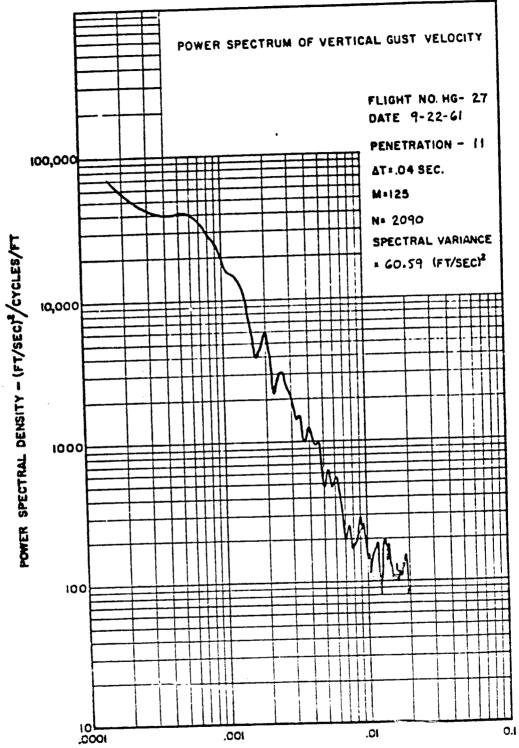
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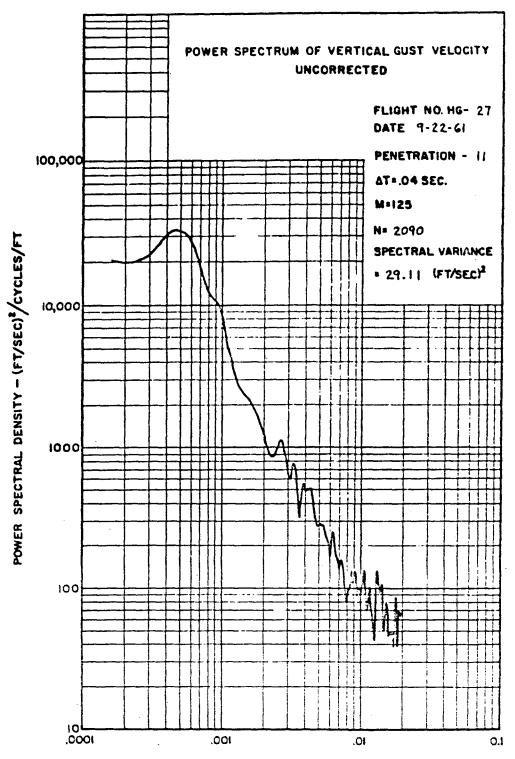


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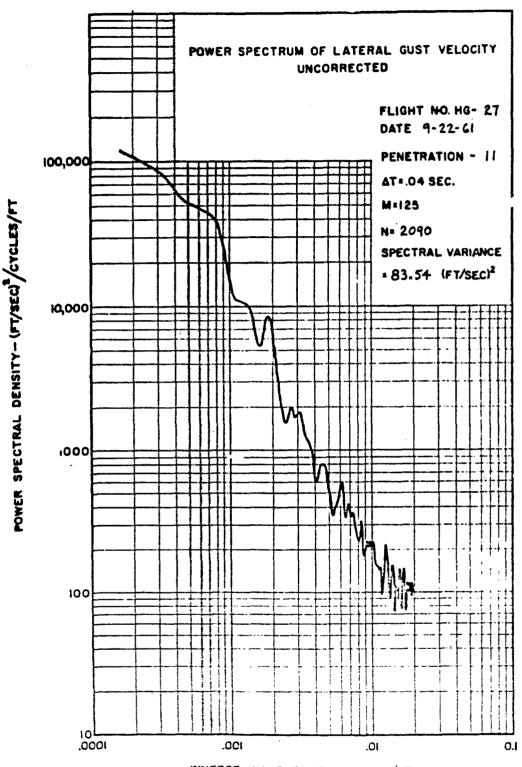
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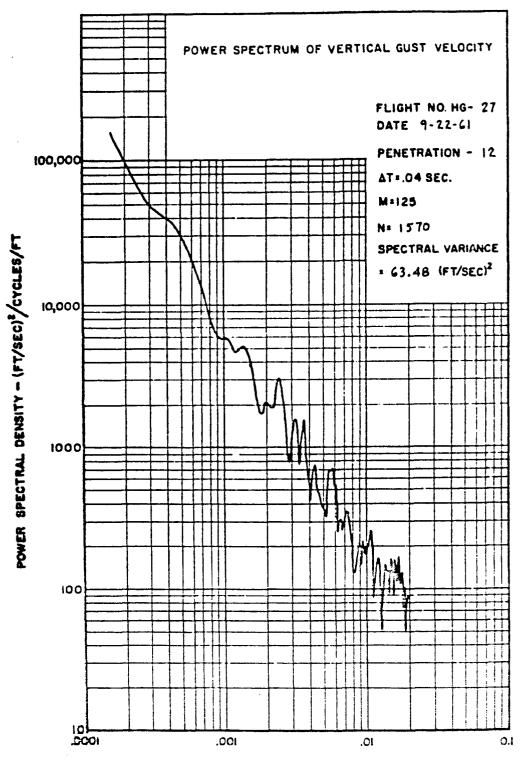


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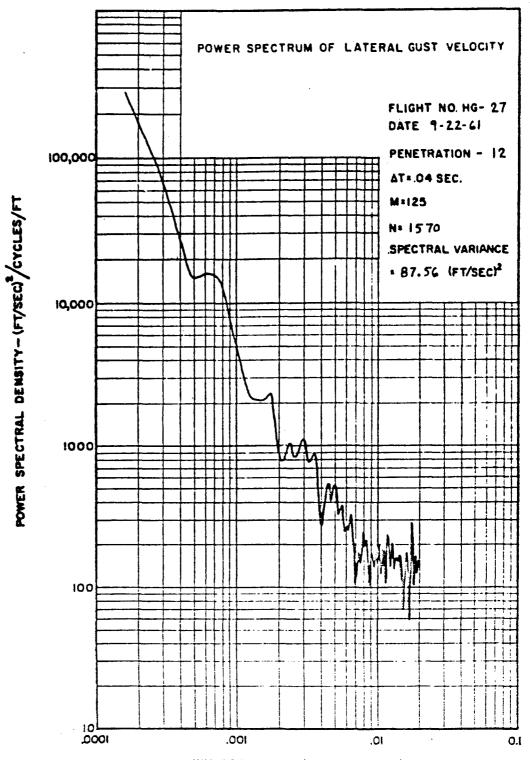


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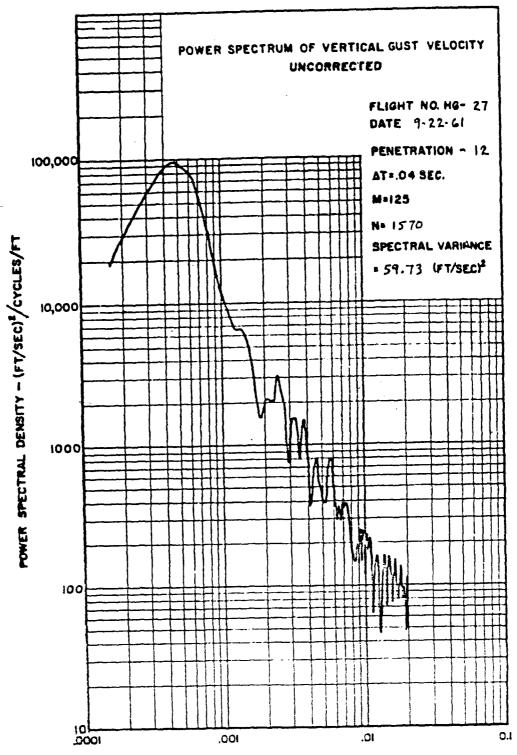
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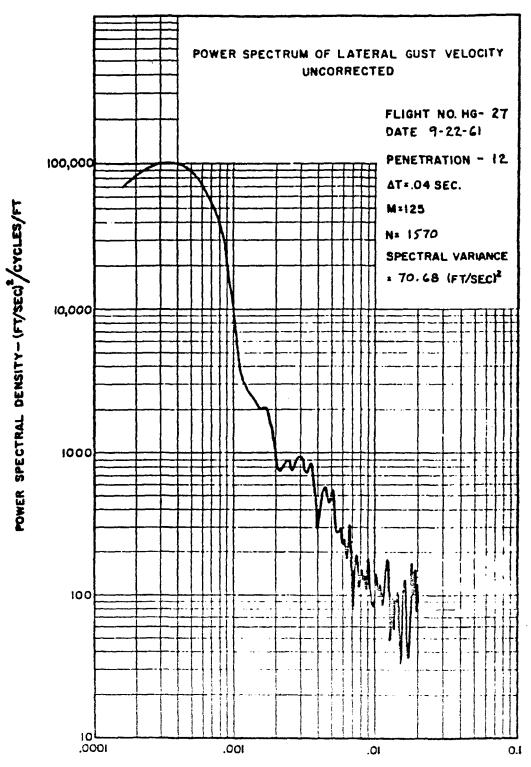
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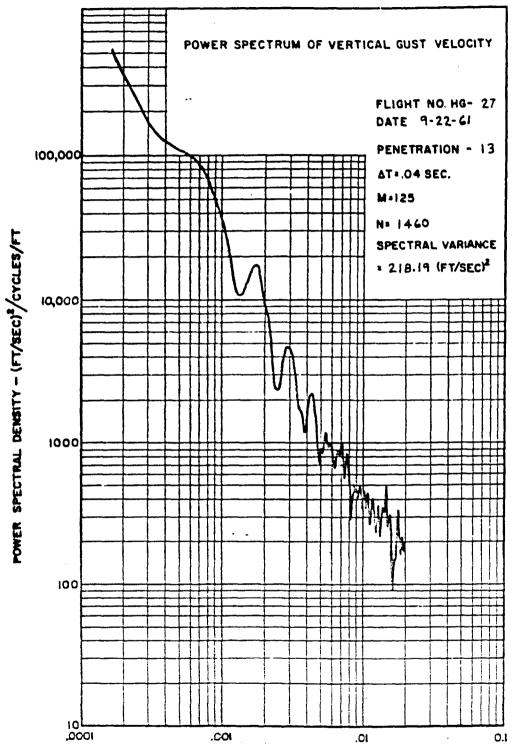
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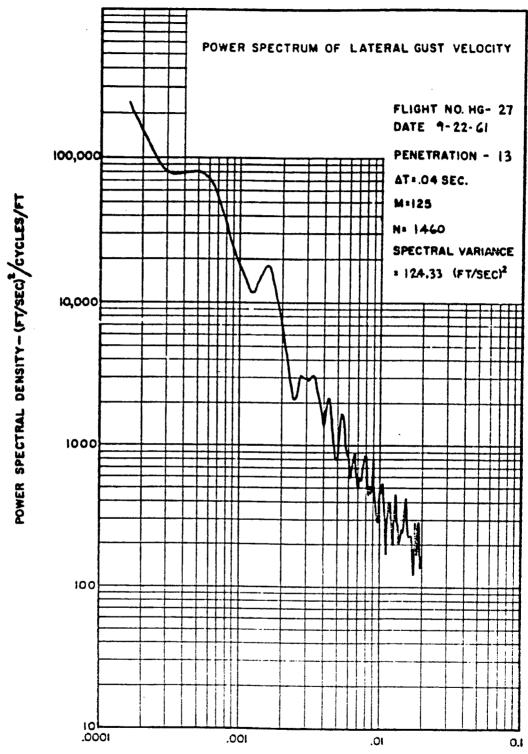
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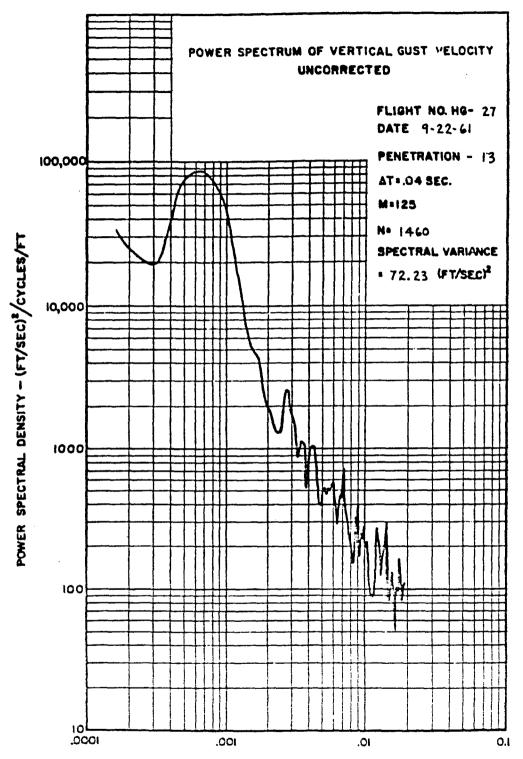


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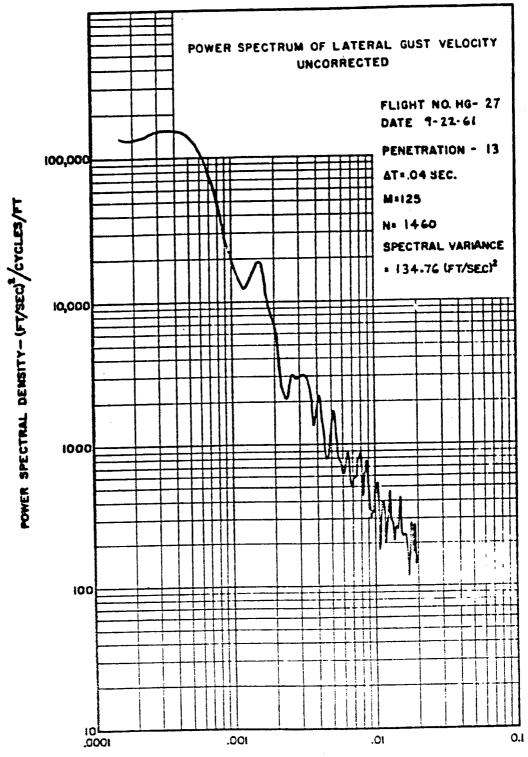
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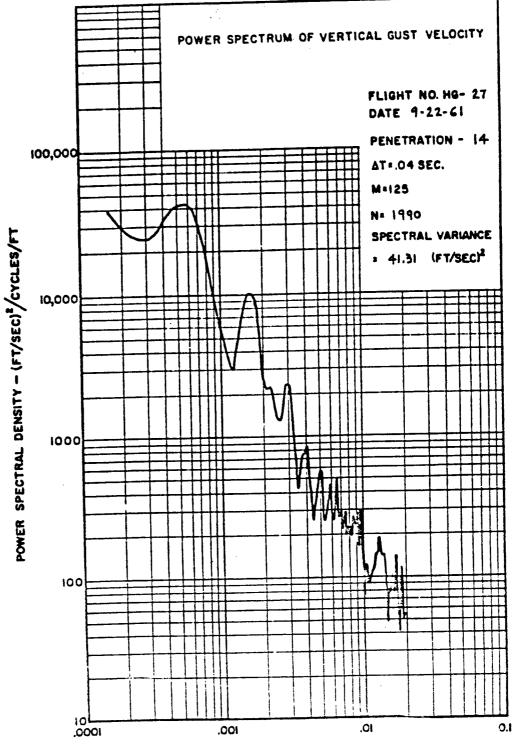
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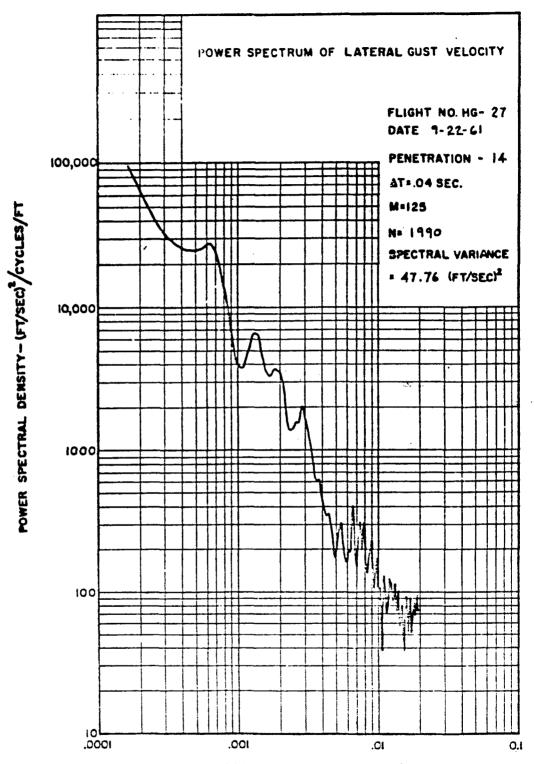


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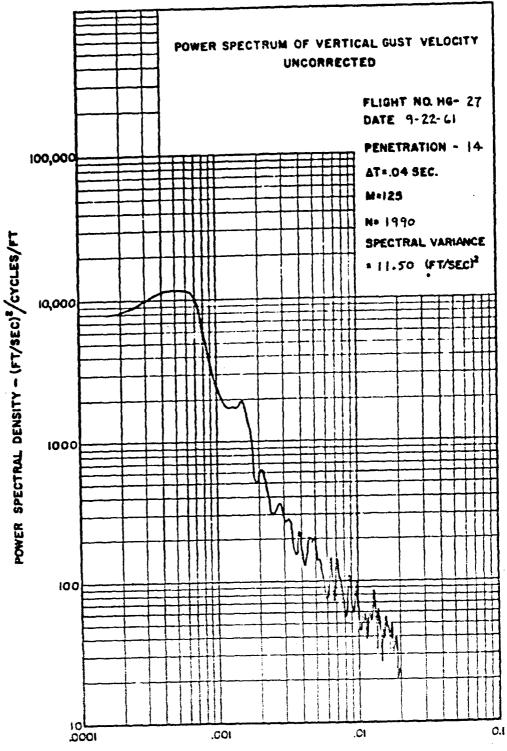


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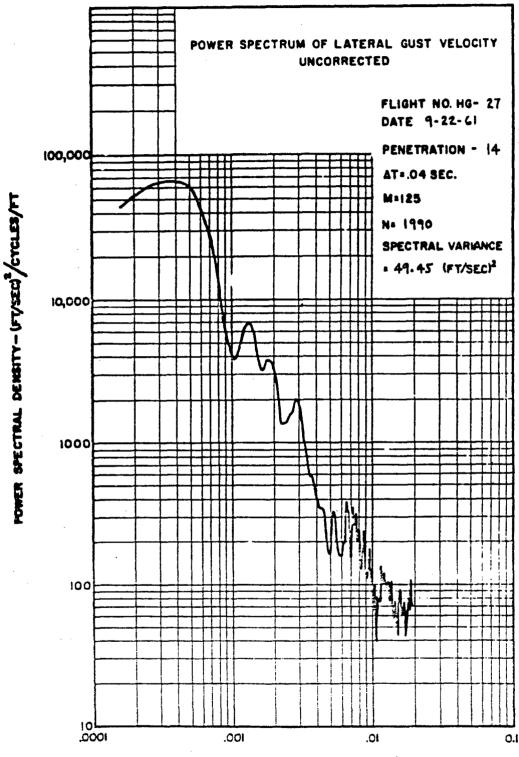


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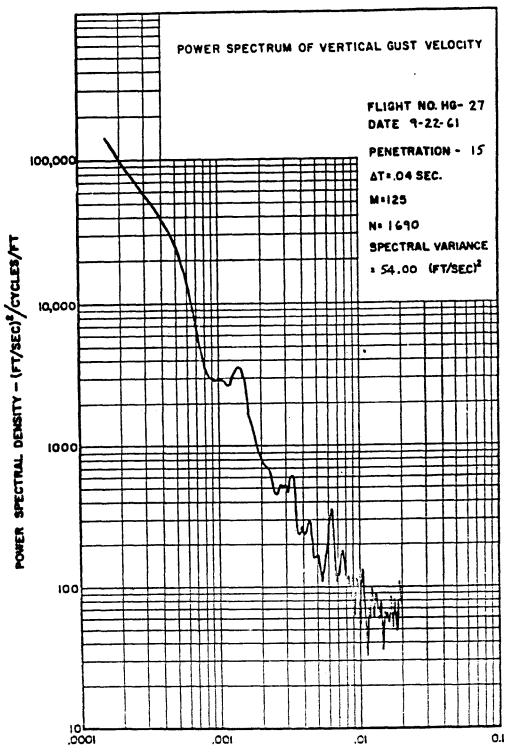


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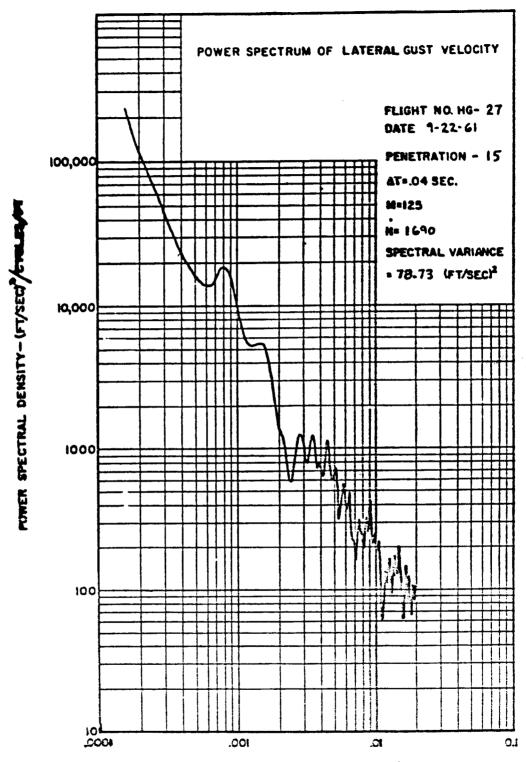


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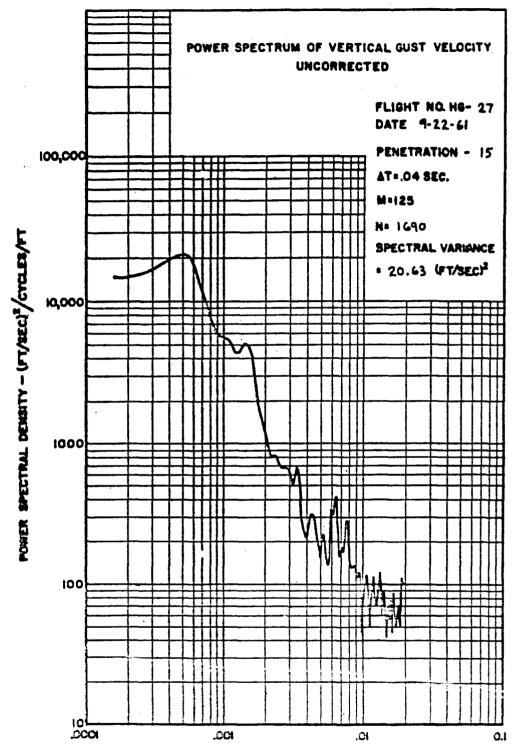


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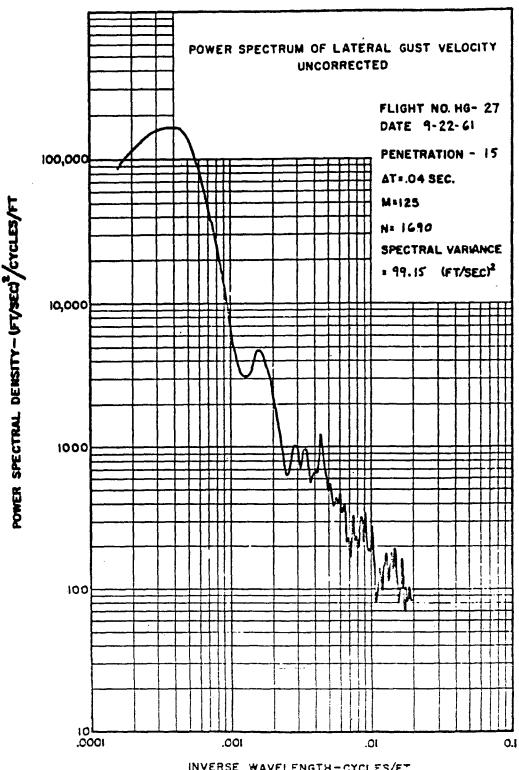
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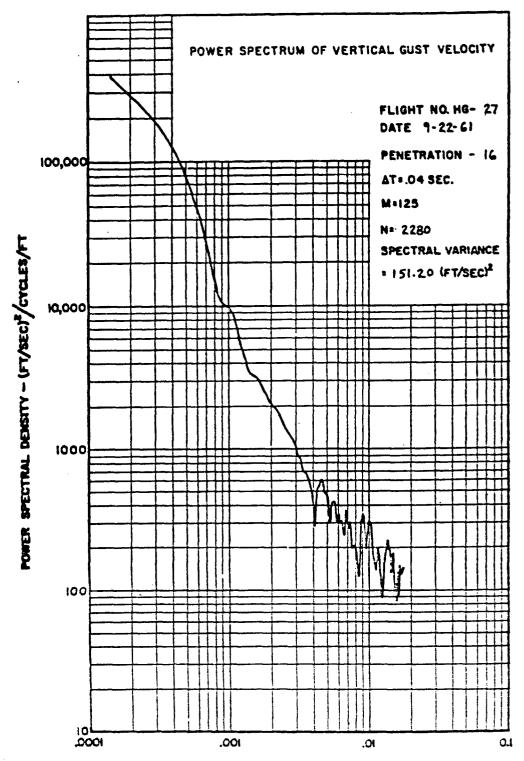


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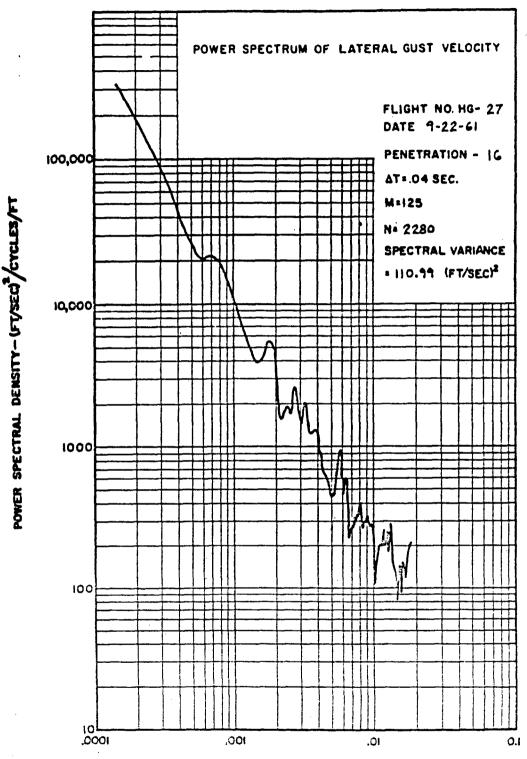
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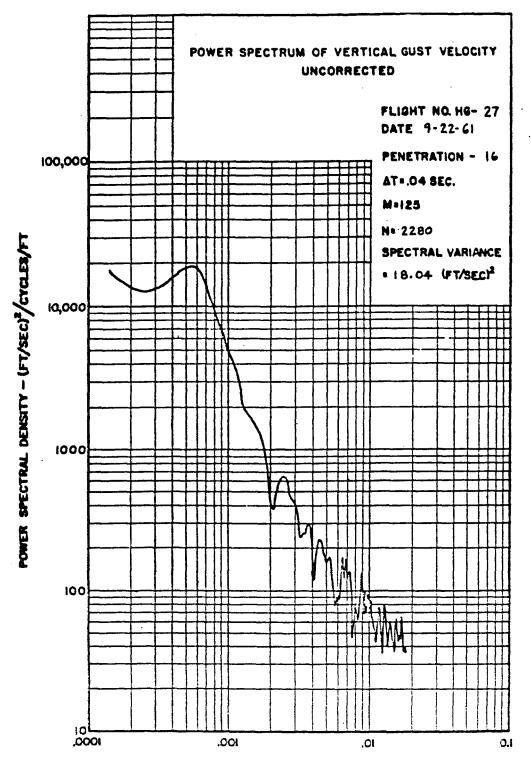
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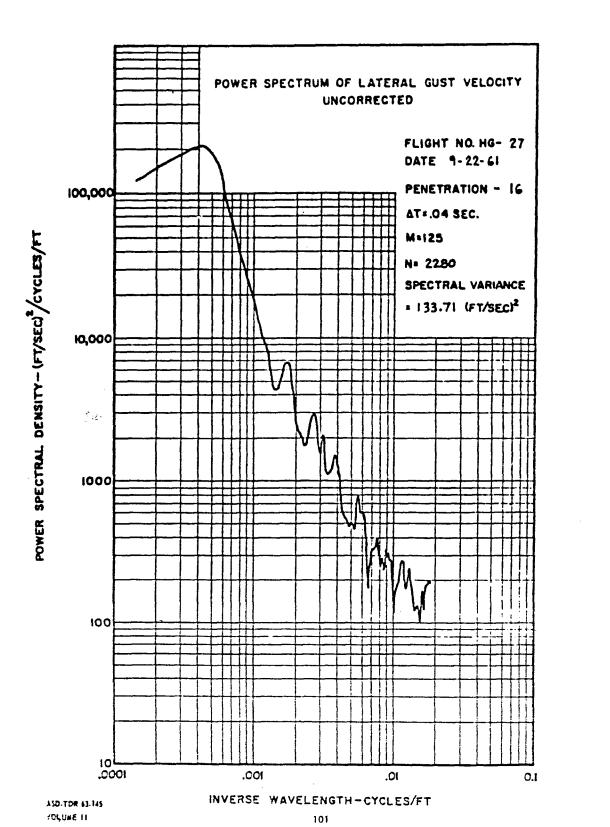
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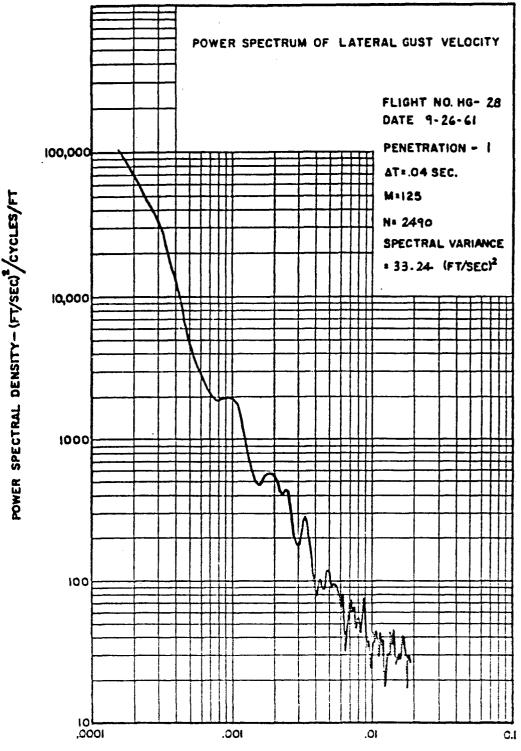
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INVERSE WAVELENGTH-CYCLES/FT

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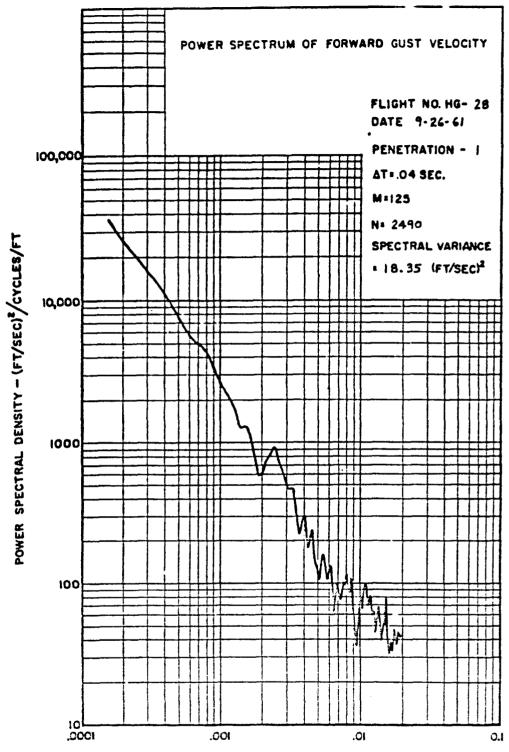


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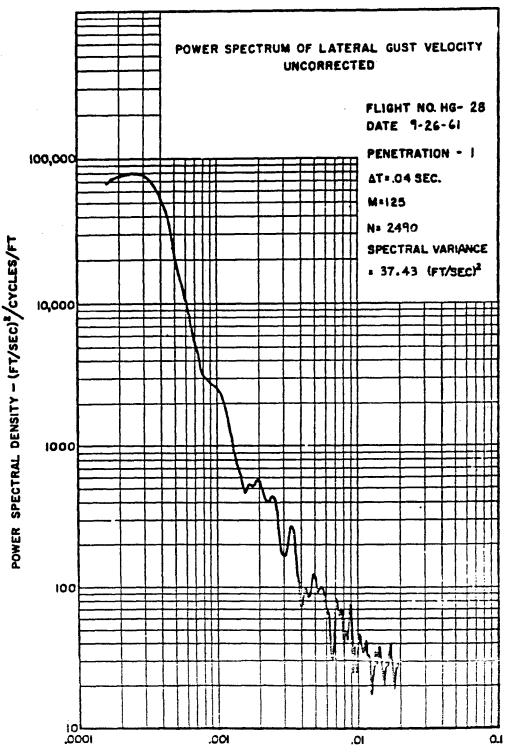
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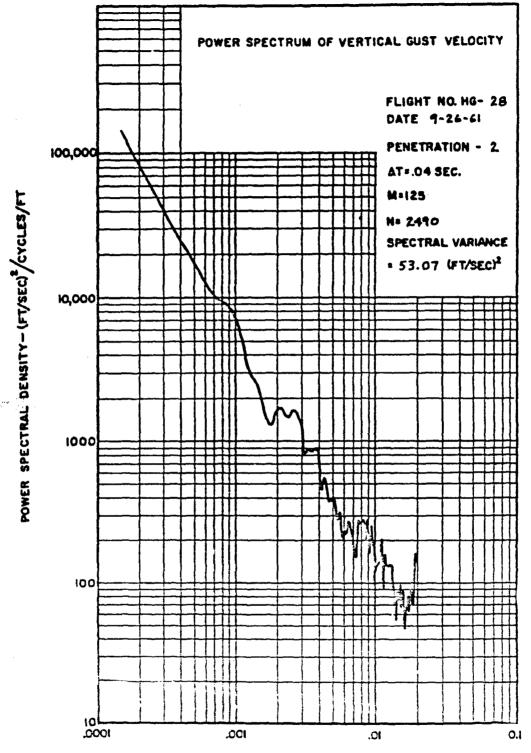
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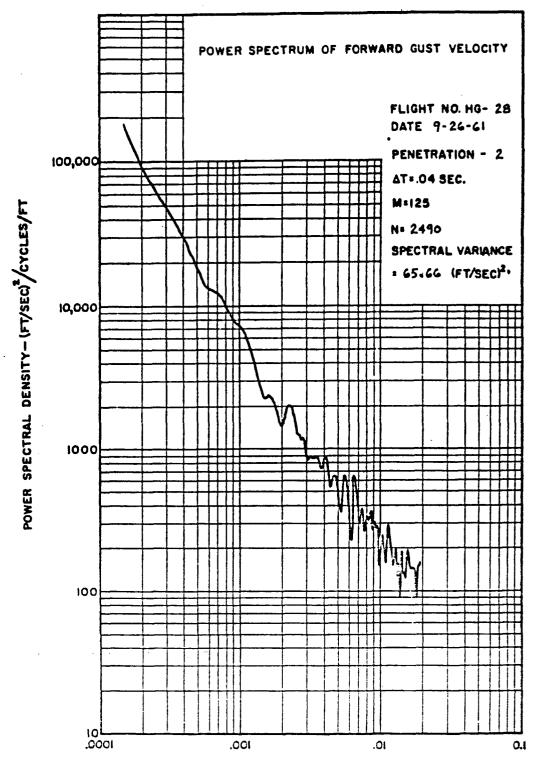
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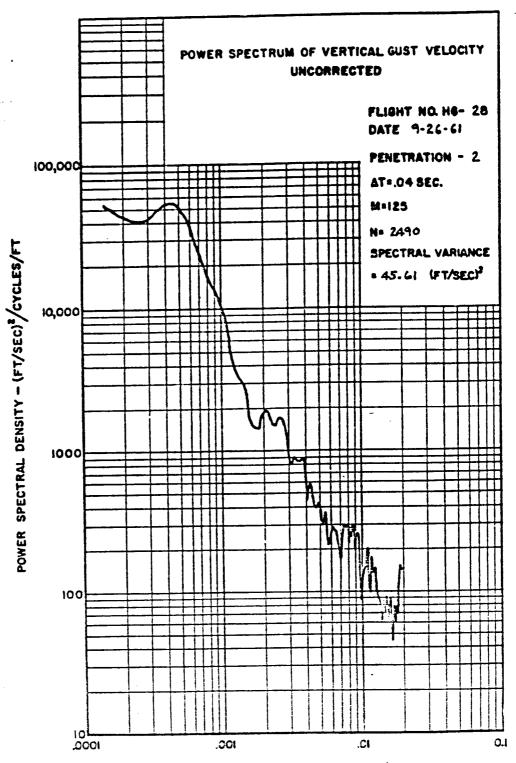


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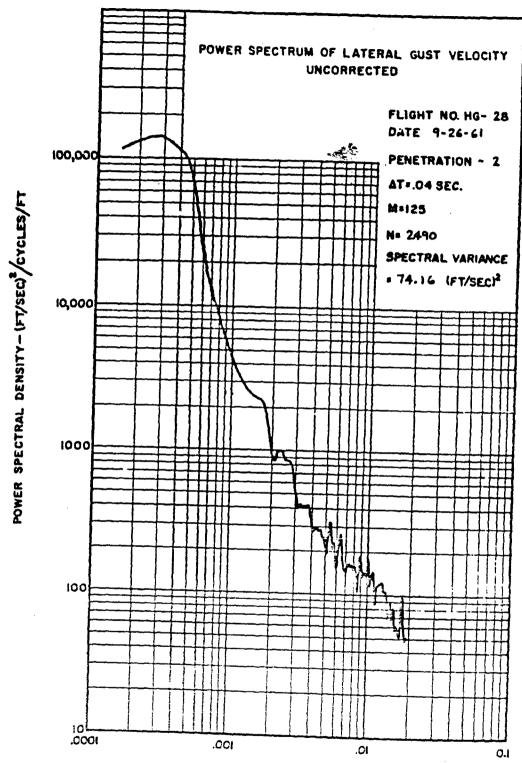


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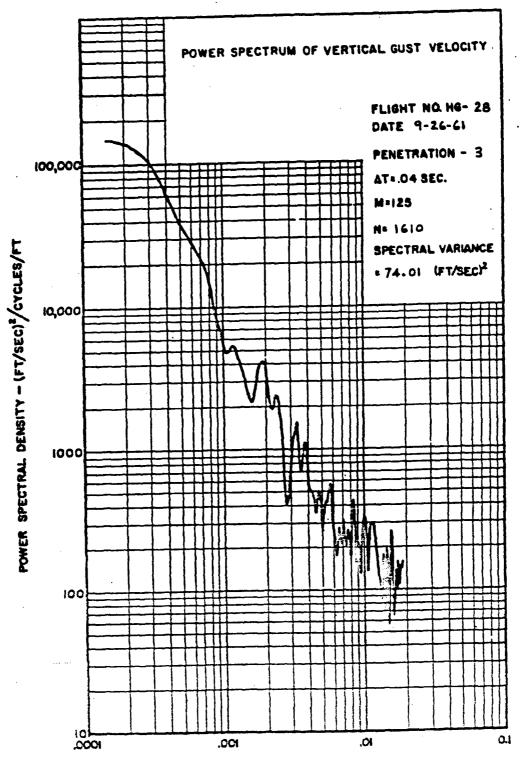


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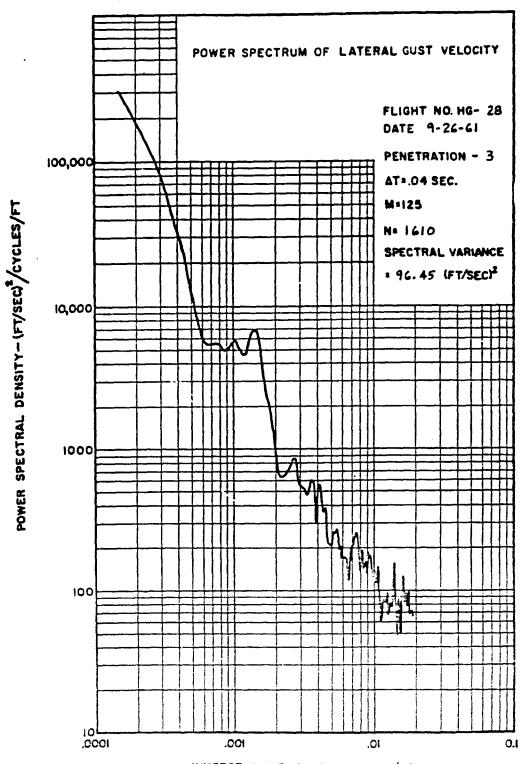


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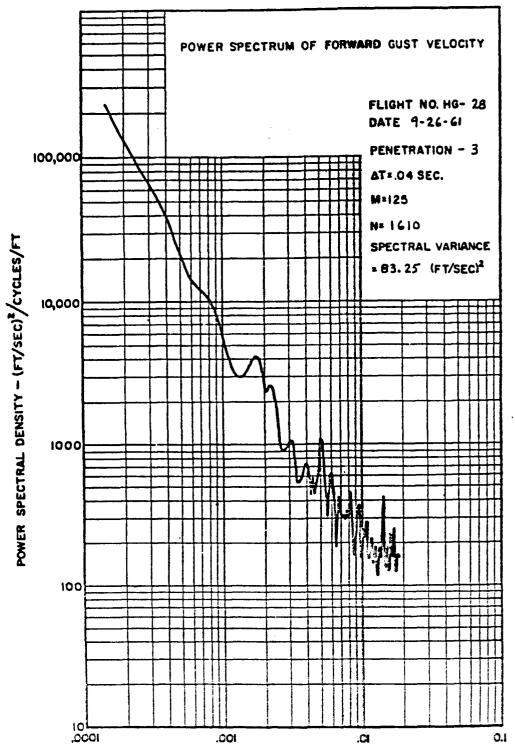
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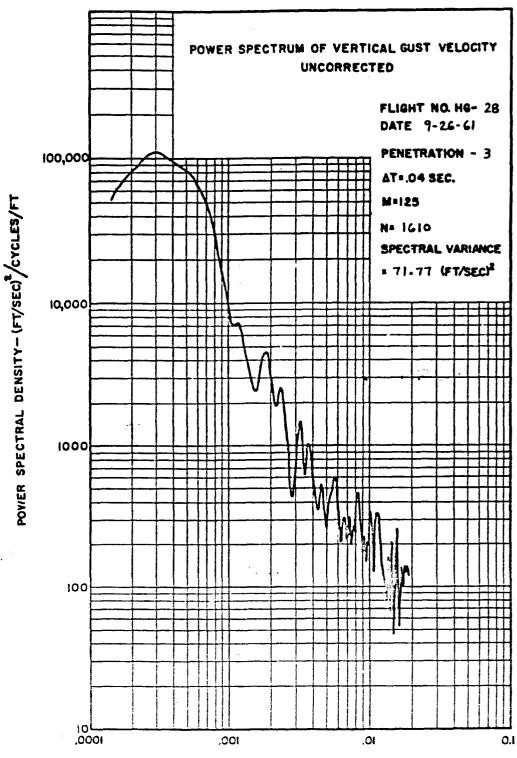
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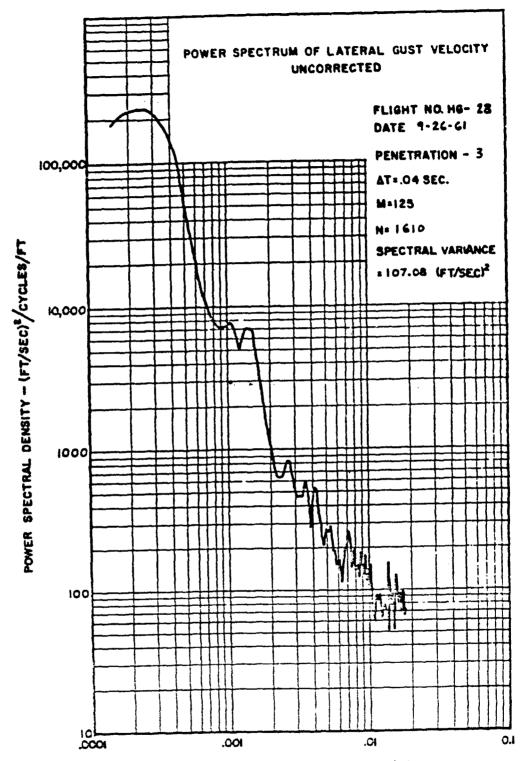


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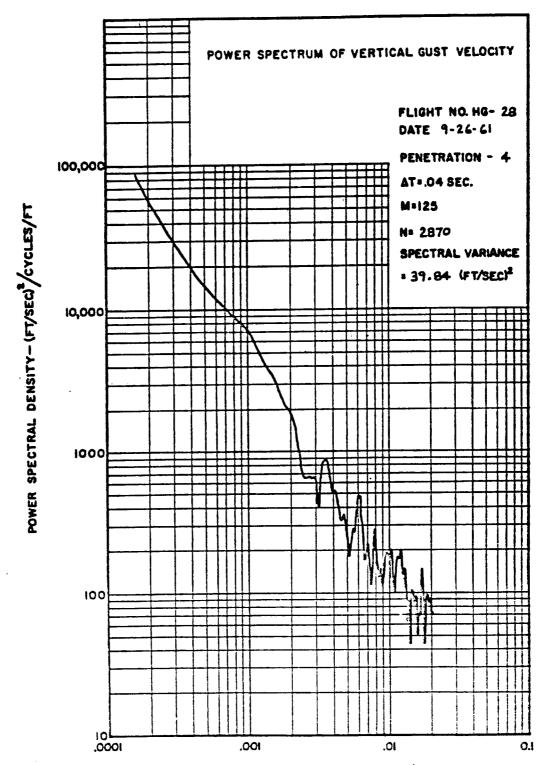
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ASD-TOR 63-145 YOLUME 11 INVERSE WAVELENGTH-CYCLES/FT

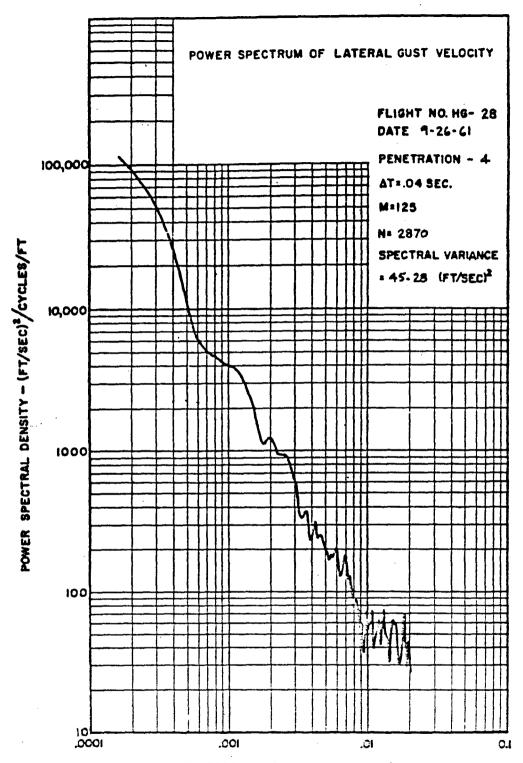


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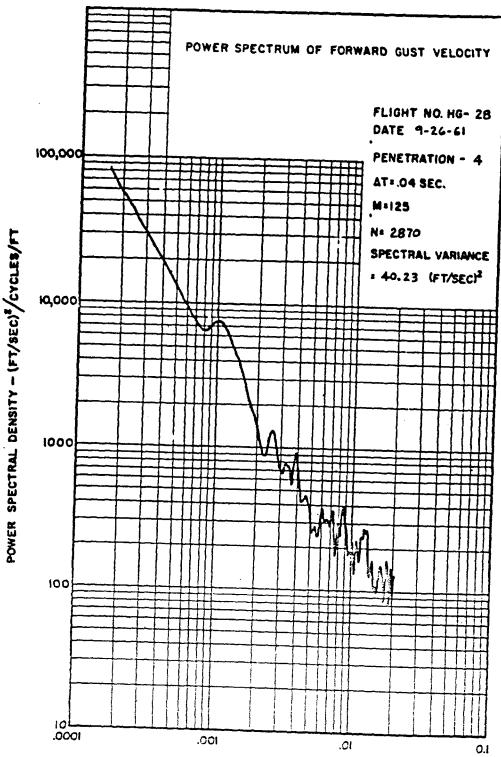


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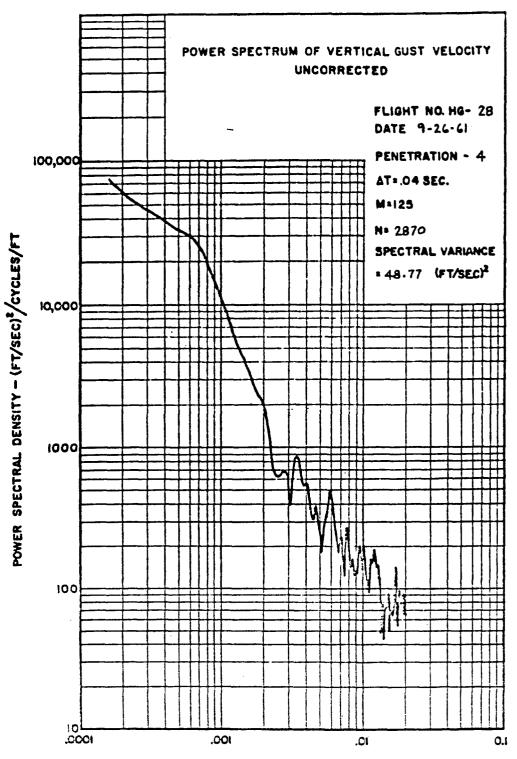


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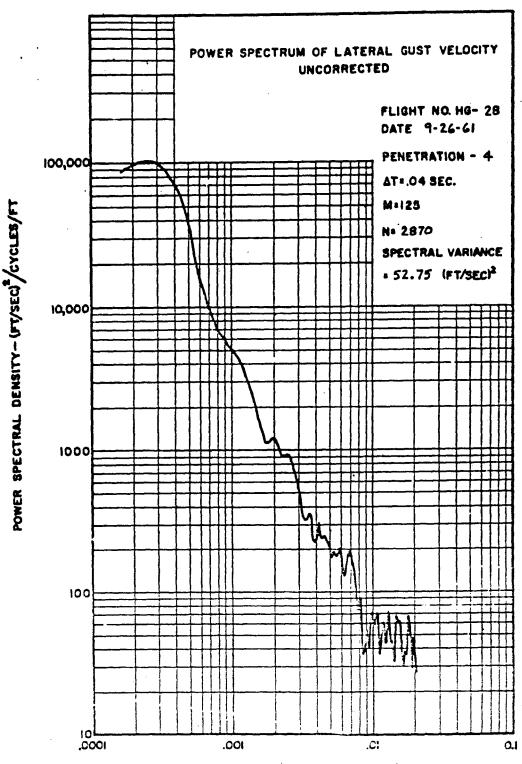
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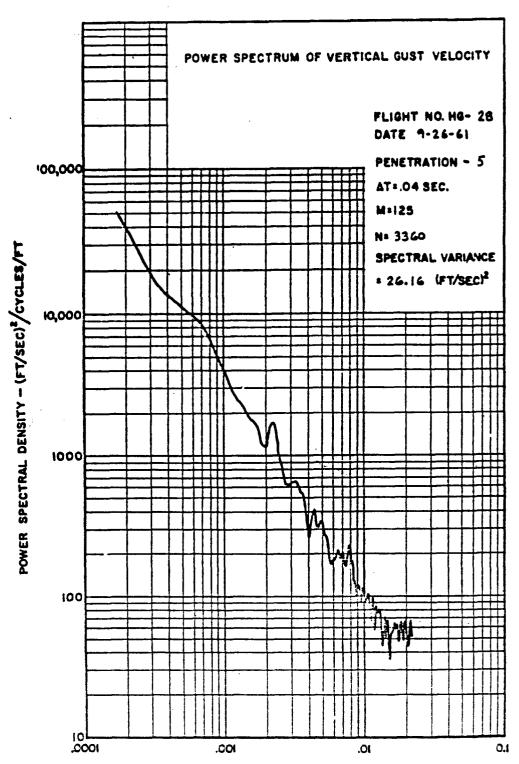
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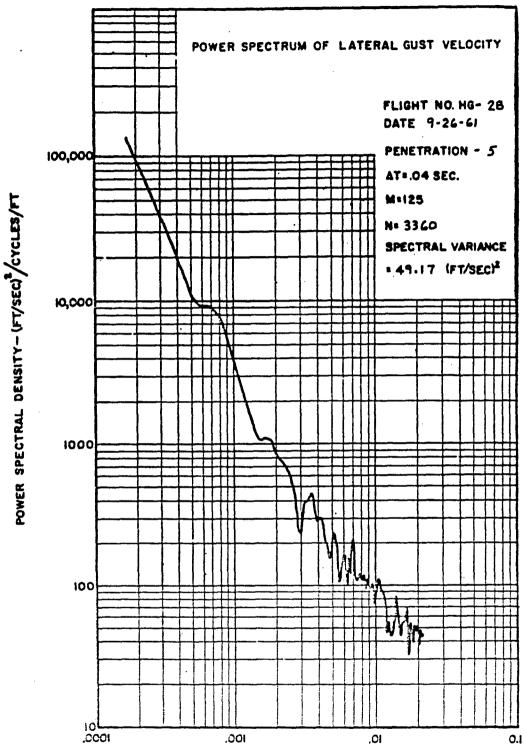
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INVERSE WAVELENGTH-CYCLES/FT



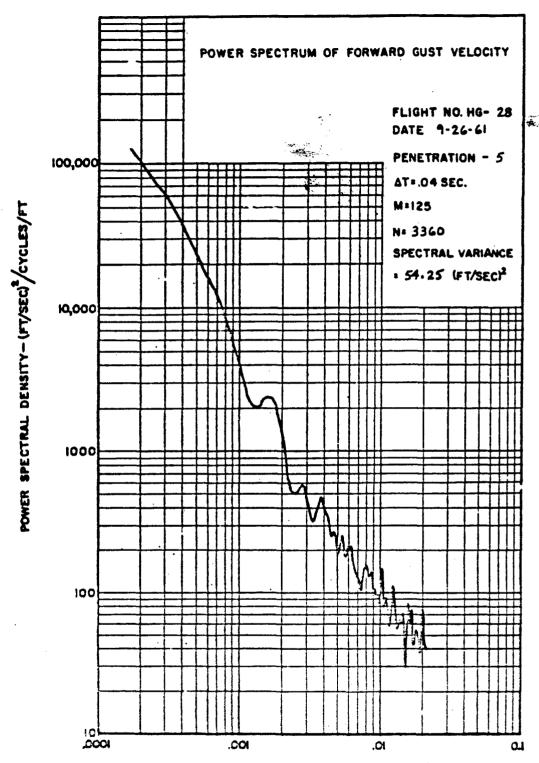
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INVERSE WAVELENGTH-CYCLES/FT



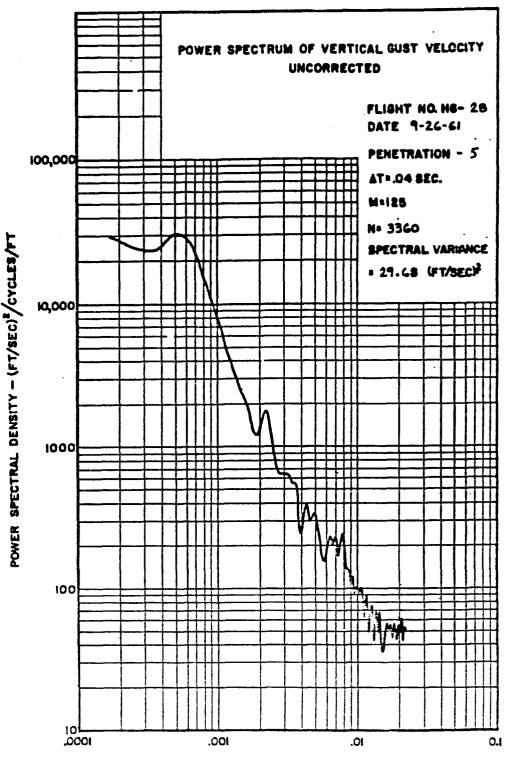
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INVERSE WAVELENGTH-CYCLES/FT



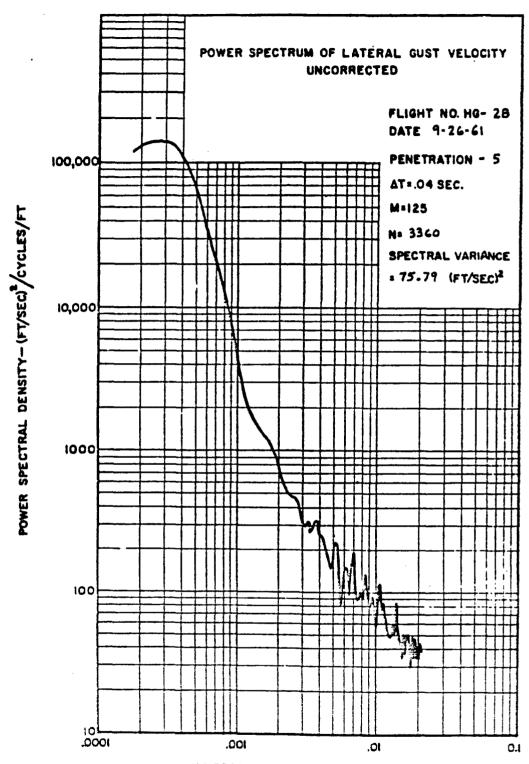
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INVERSE WAVELENGTH-CYCLES/FT



ASD-TDR-43-145 YOUUME II

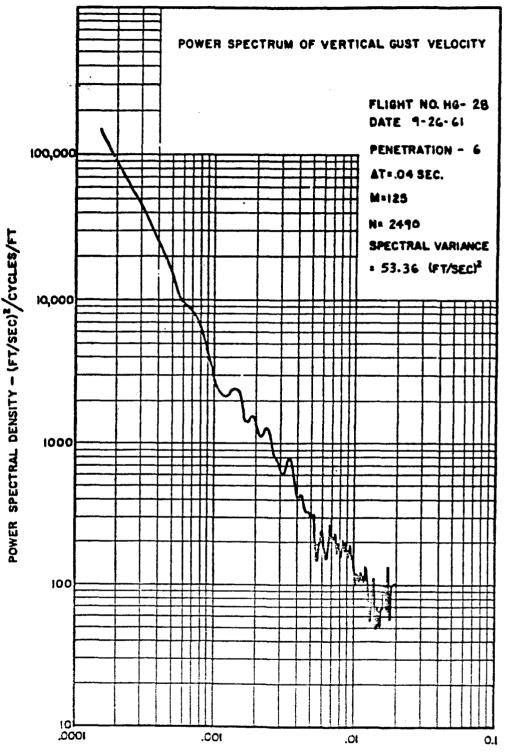
INVERSE WAVELENGTH-CYCLES/FT



のでの記念を含めて、自己を引き、最後に対象的の企業を必要は必要ななない。 1990年の日本ののでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、1990年の日本のでは、19

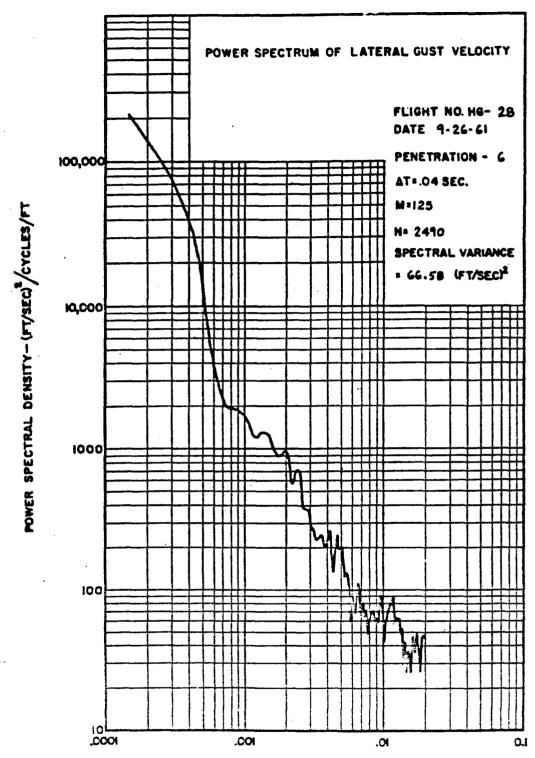
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INVERSE WAVELENGTH-CYCLES/FT



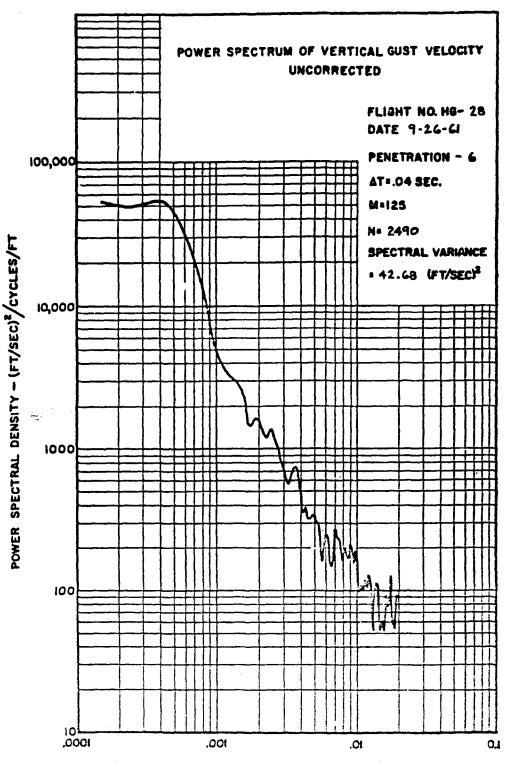
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ASQLTOR AB-145 YOKUWP-11



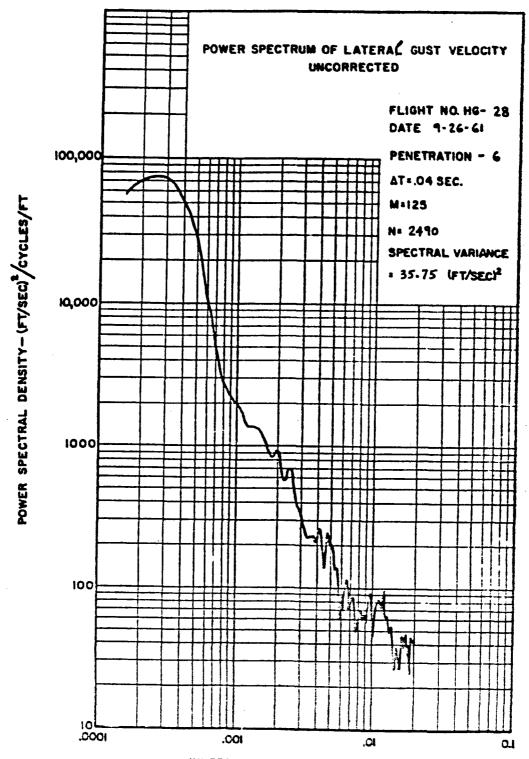
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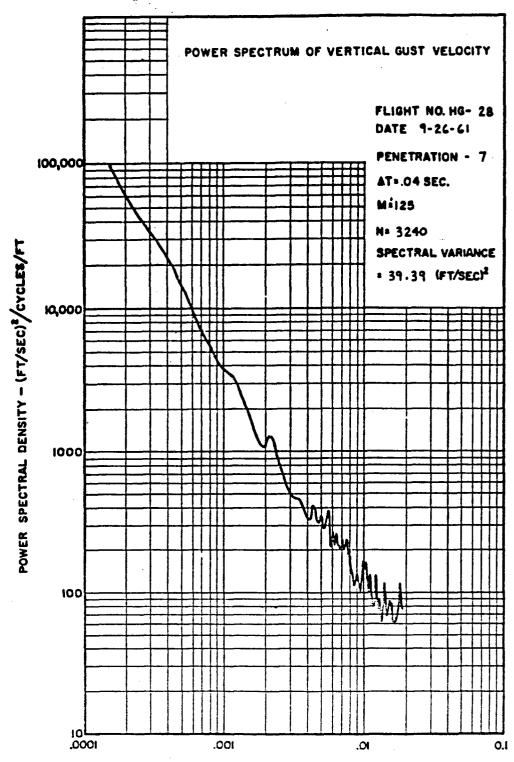
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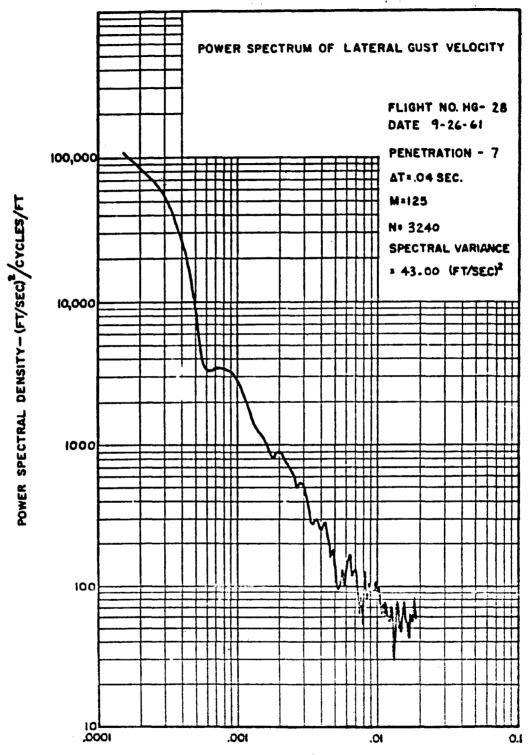
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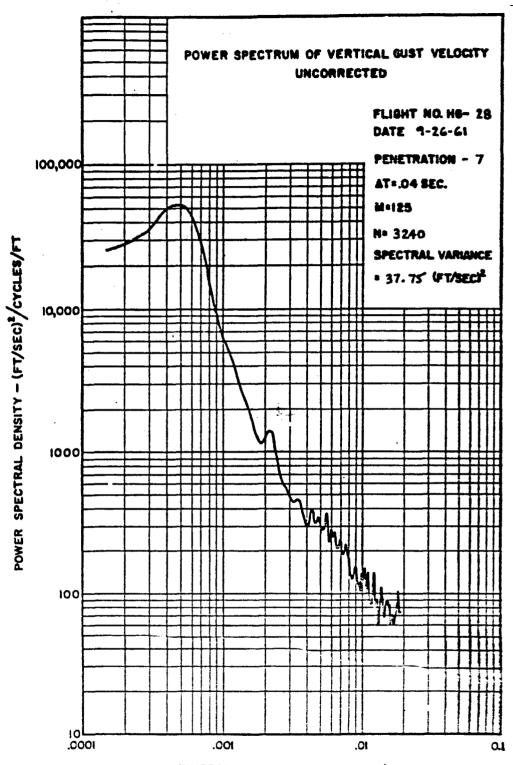
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INVERSE WAVELENGTH-CYCLES/FT



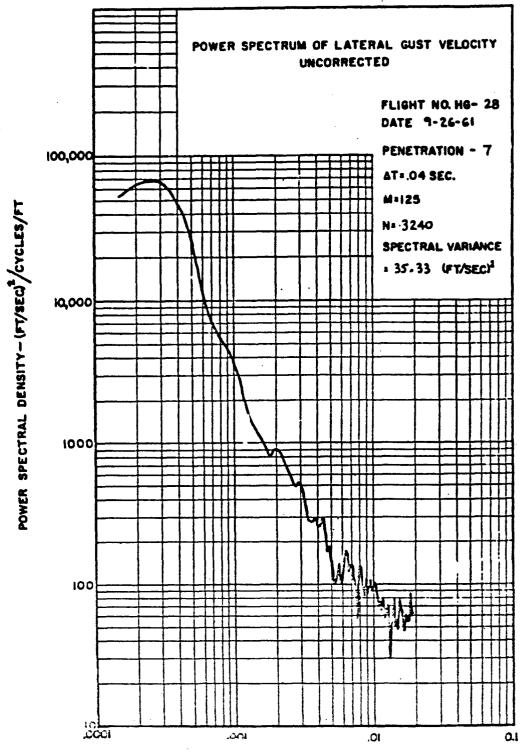
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INVERSE WAVELENGTH-CYCLES/FT



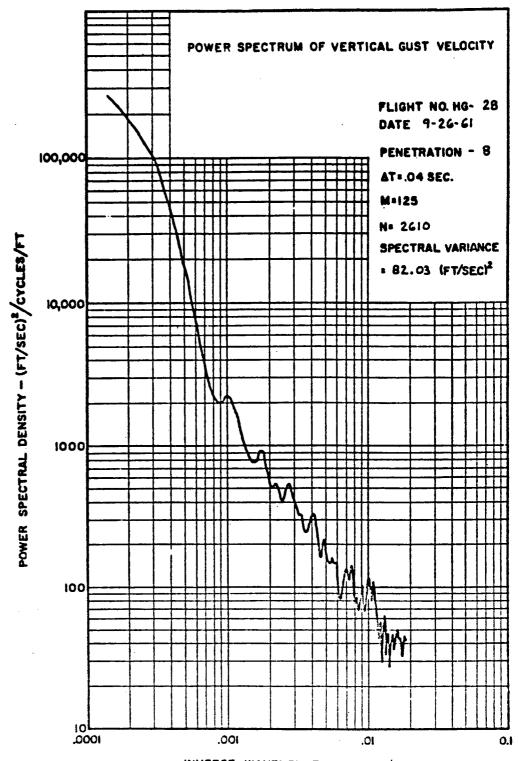
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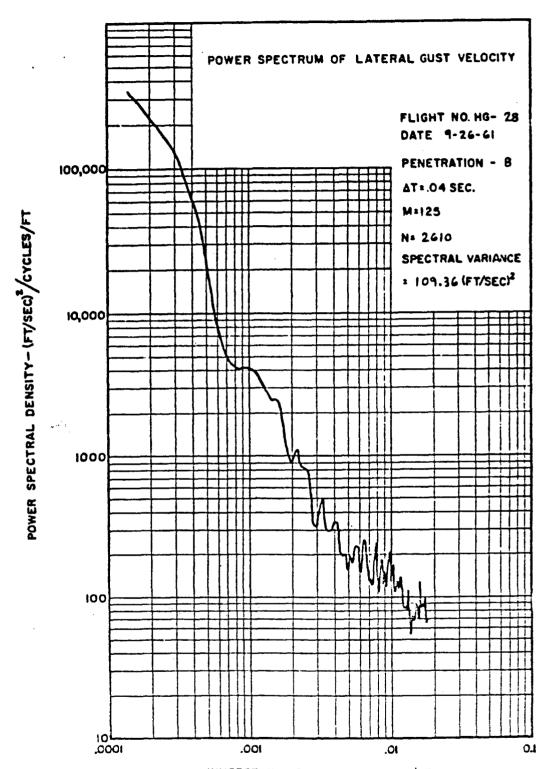
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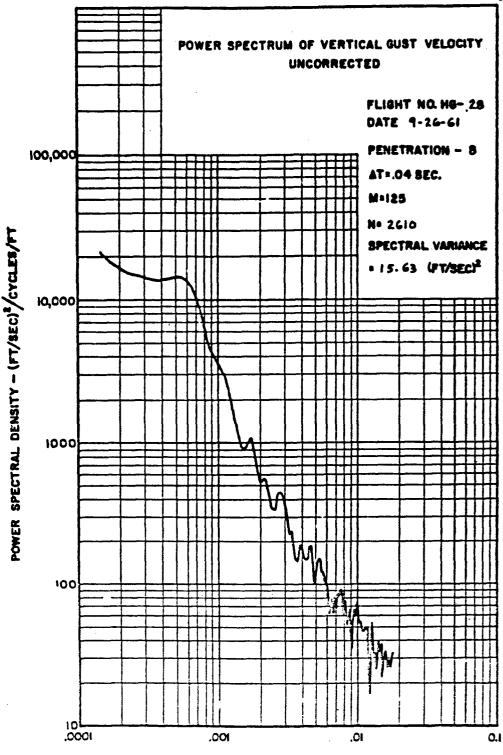
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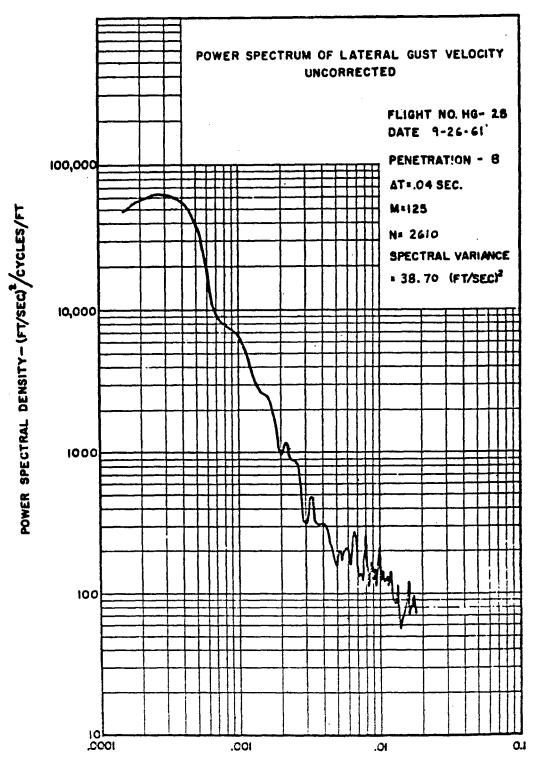


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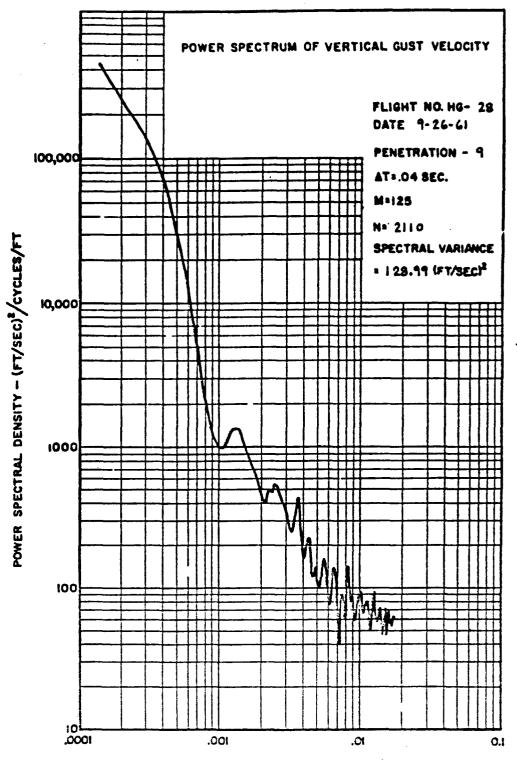
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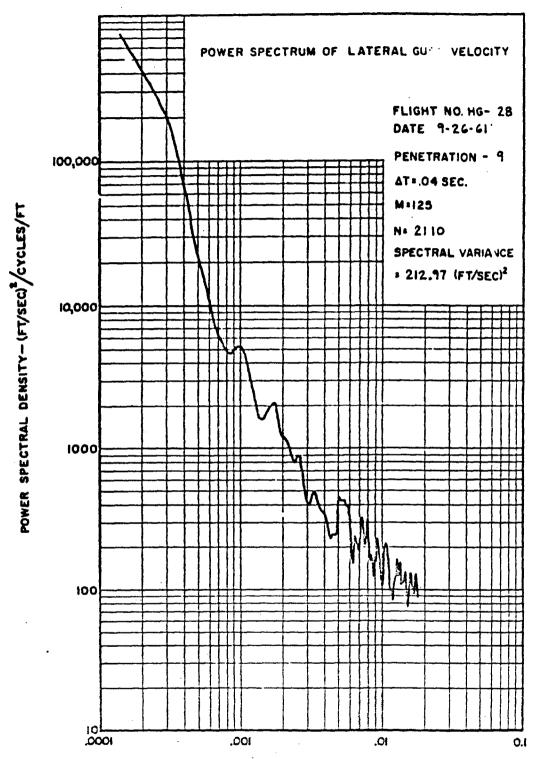


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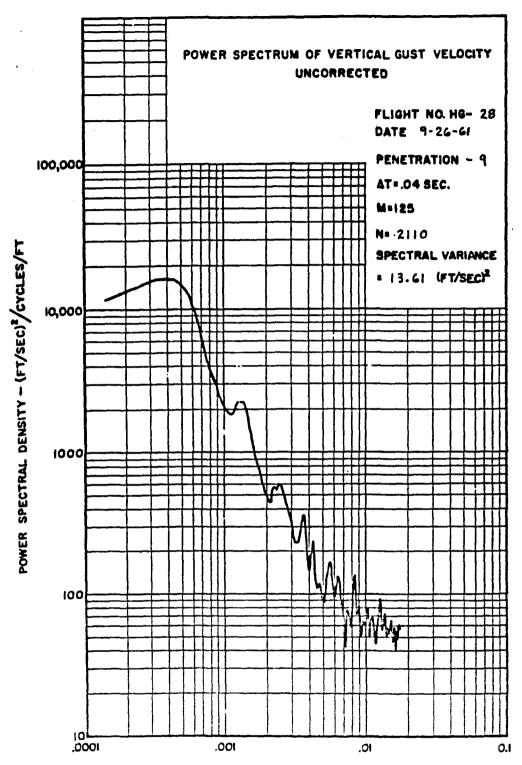
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INVERSE WAVELENGTH-CYCLES/FT



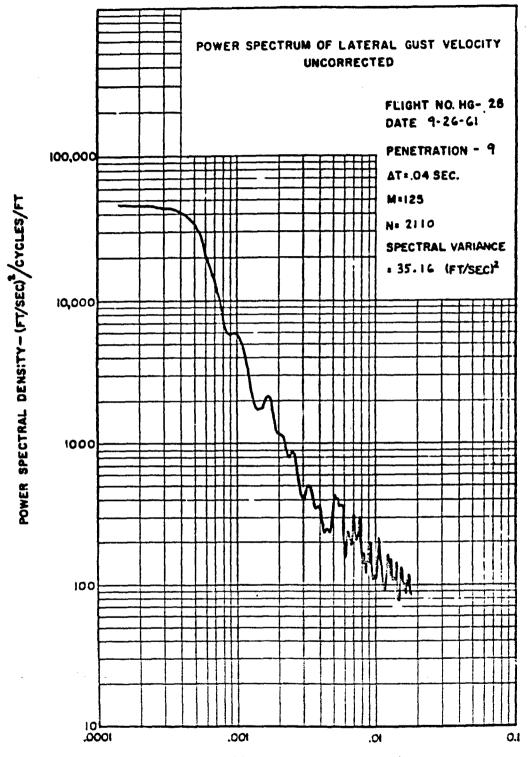
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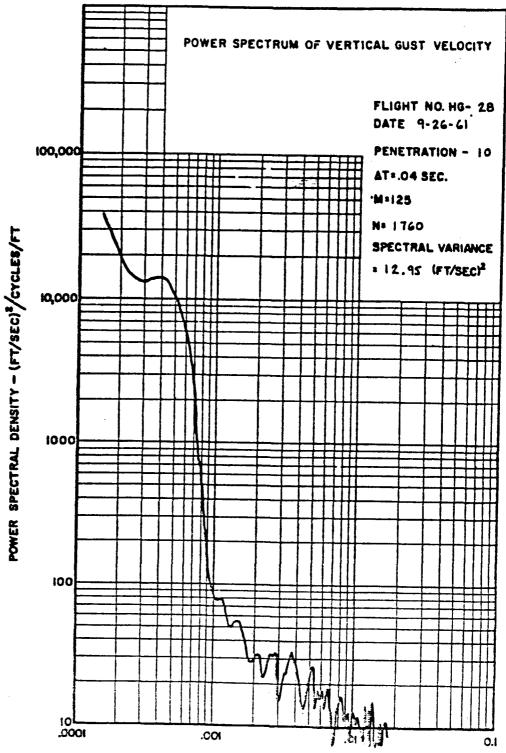


INVERSE WAVELENGTH-CYCLES/FT

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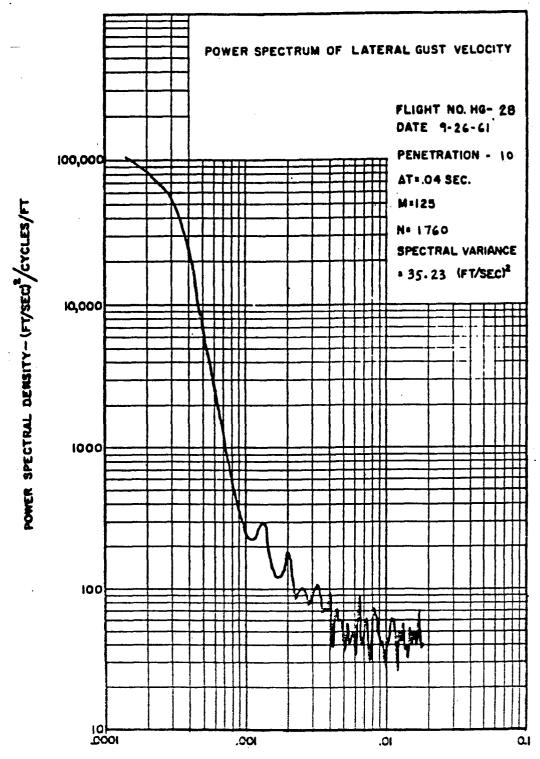


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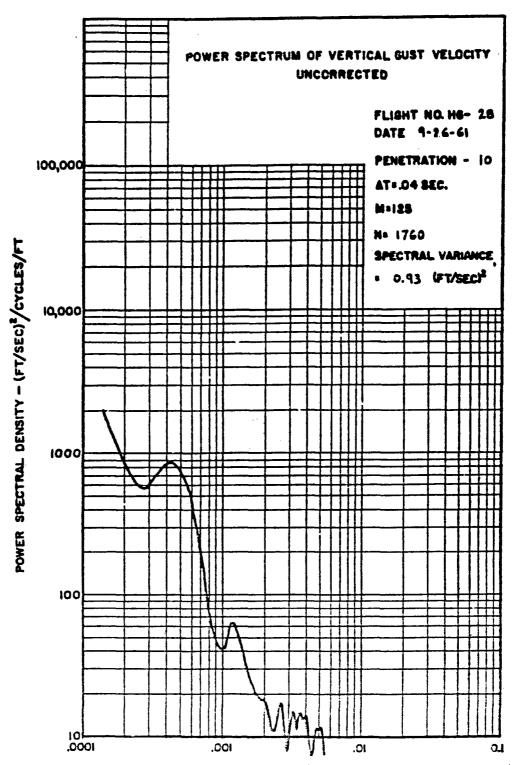
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INVERSE WAVELENGTH-CYCLES/FT



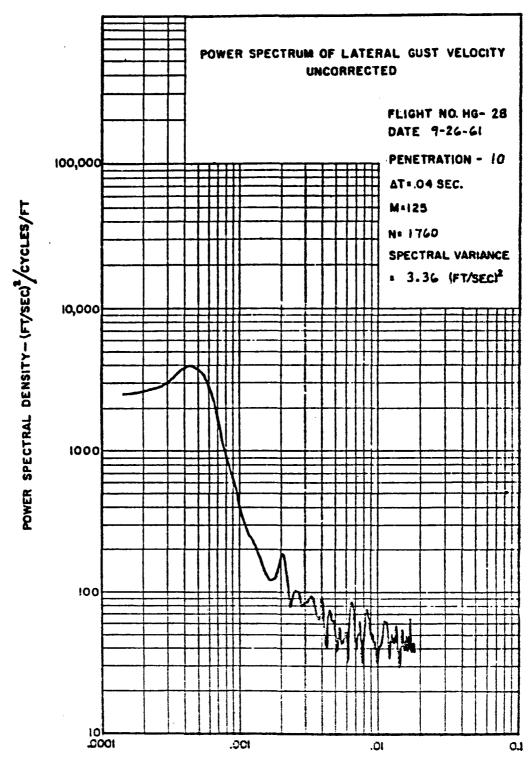
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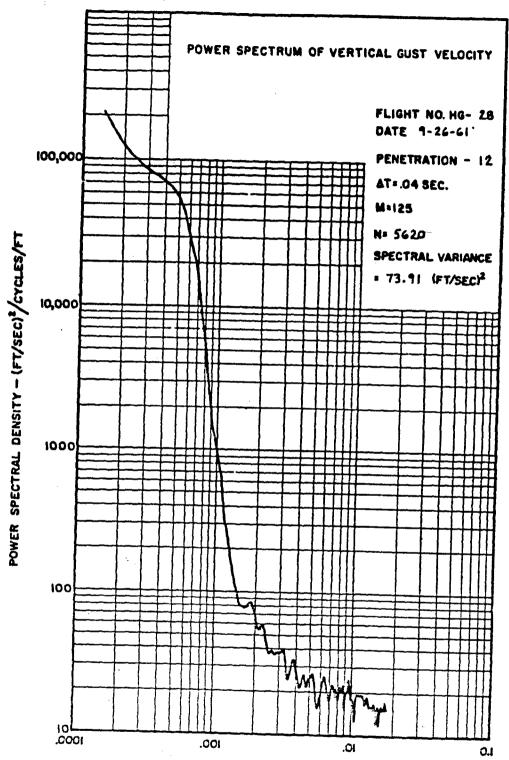
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INVERSE WAVELENGTH-CYCLES/FT



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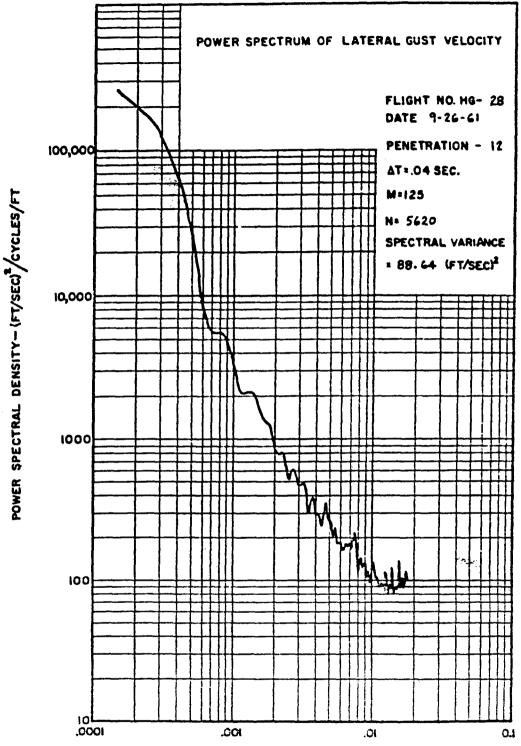
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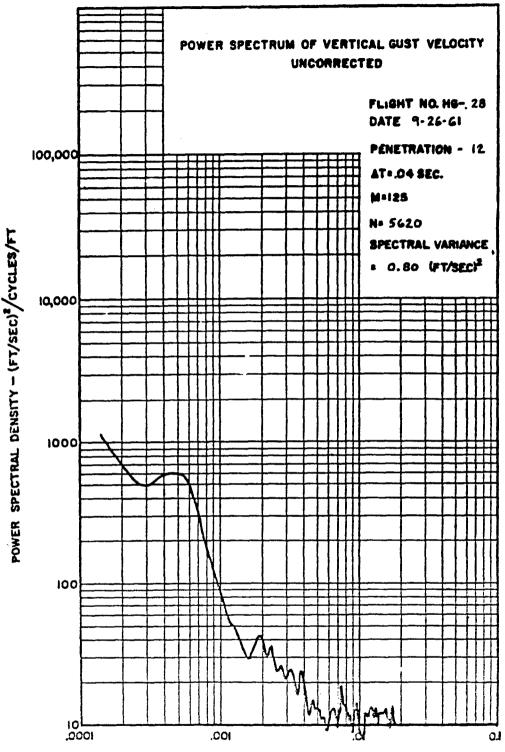
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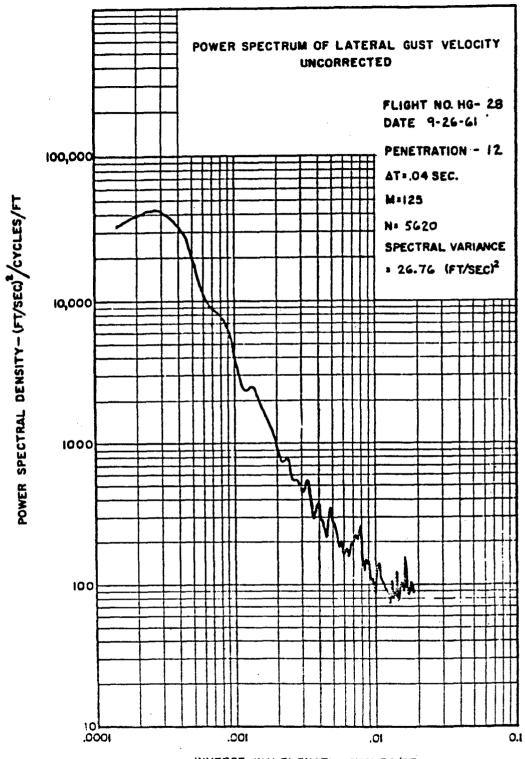


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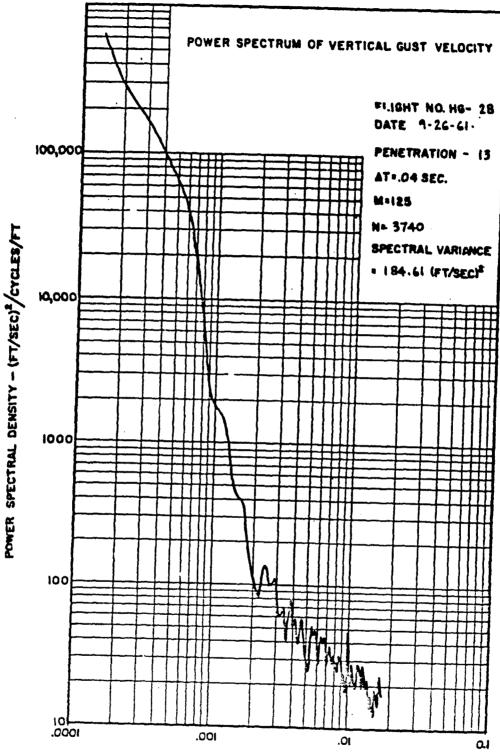


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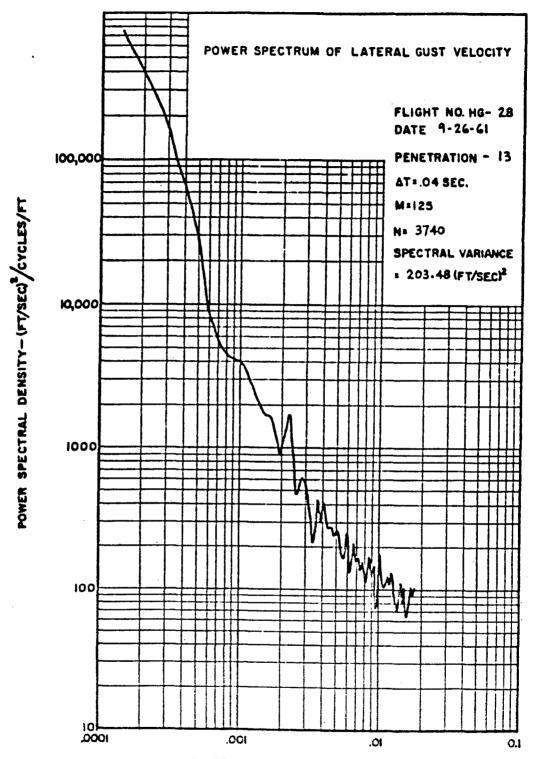
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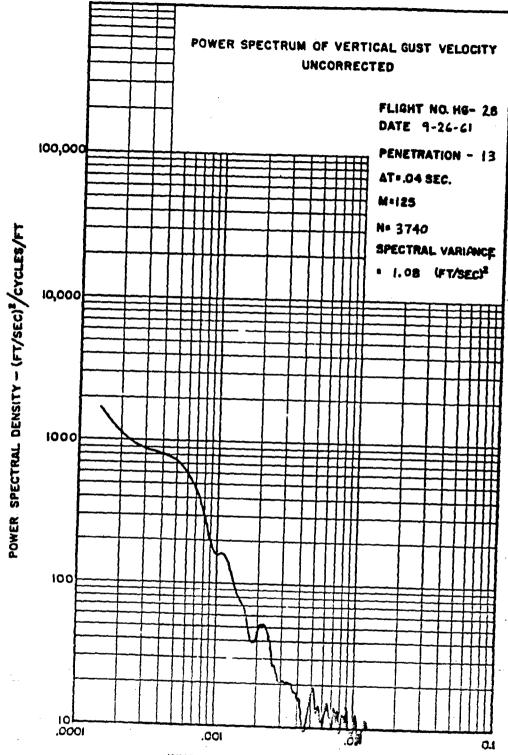
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ASD-TDR-43-145 VOLUME 11



ASD-TOR-43-145 YOUSE II

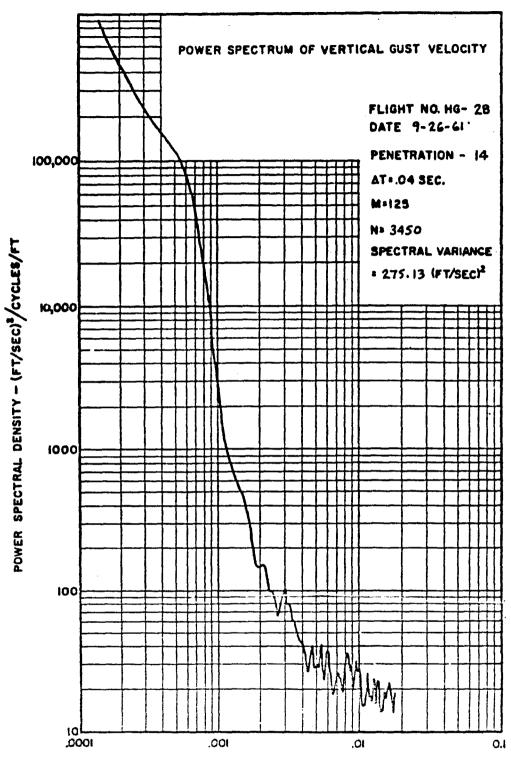
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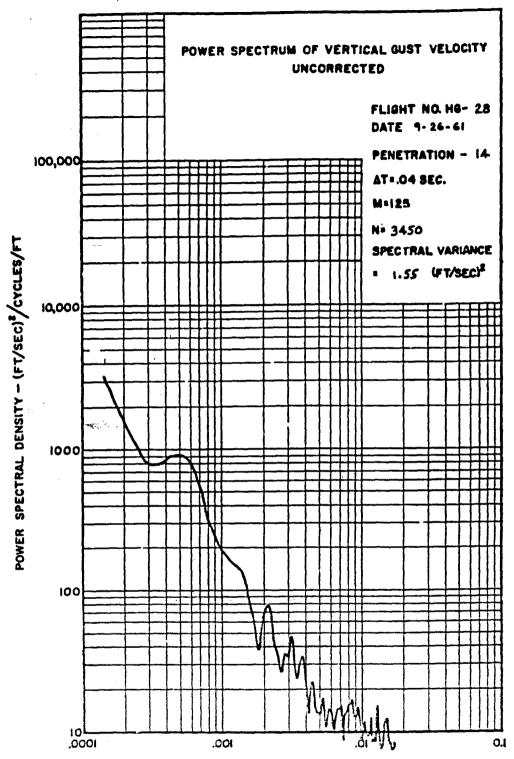
INVERSE WAVELENGTH-CYCLES/FT

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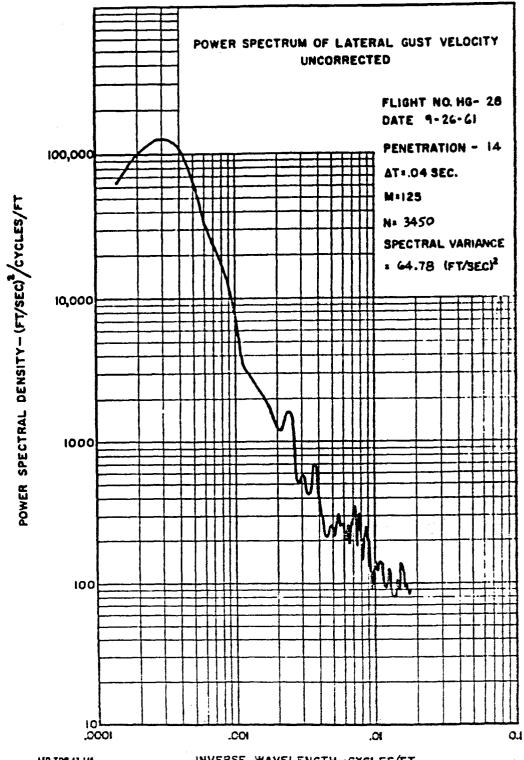
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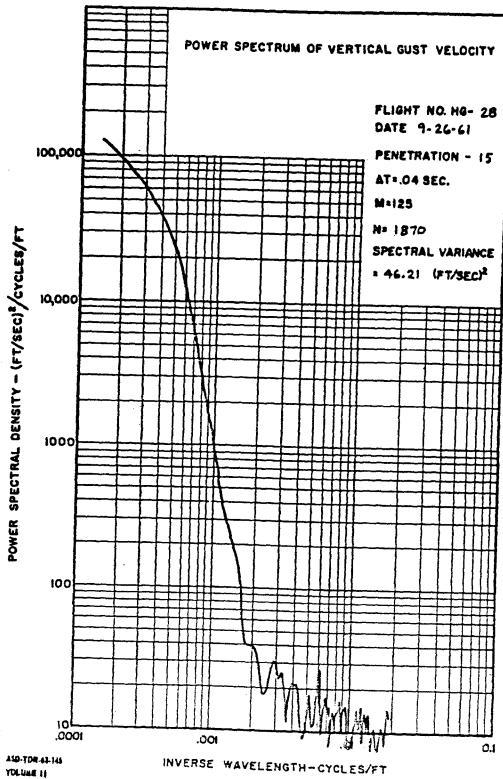


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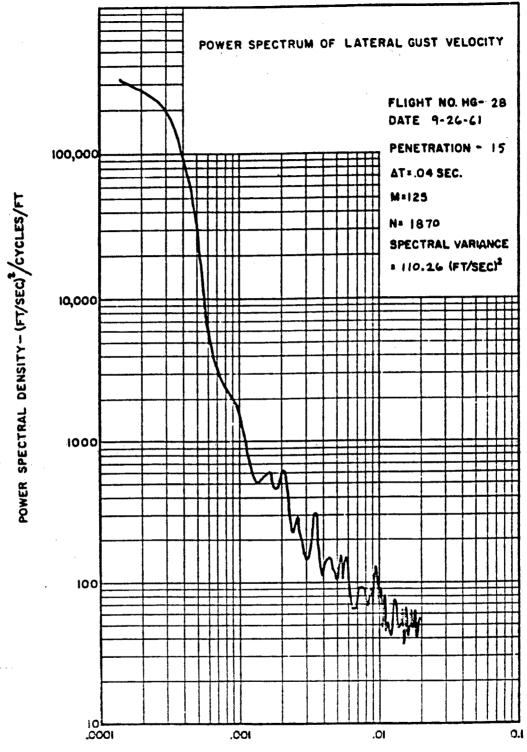
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ASO-TOR-43-145 YOU WAR 11 INVERSE WAVELENGTH-CYCLES/FT

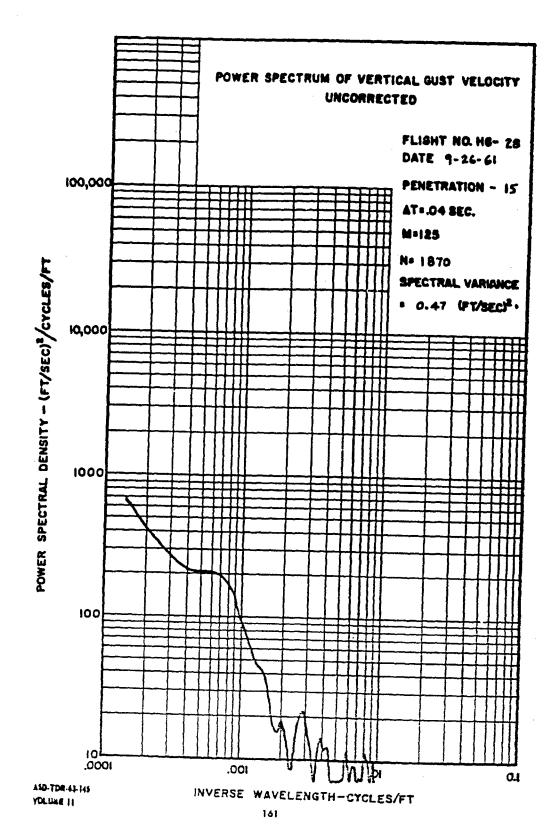


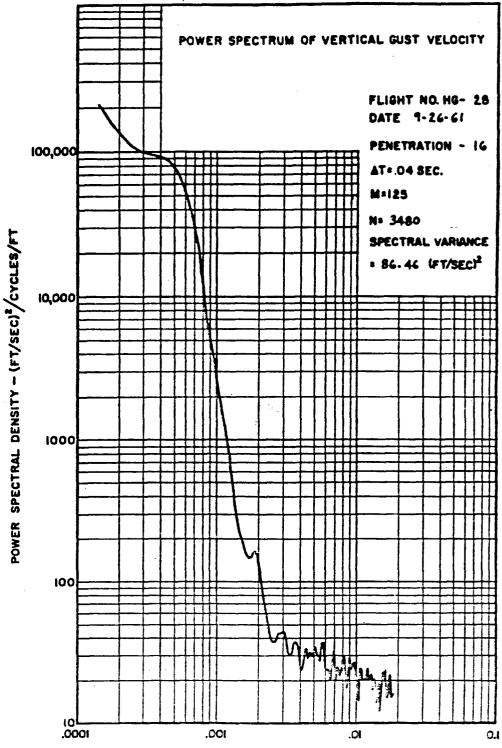
YOLUME II



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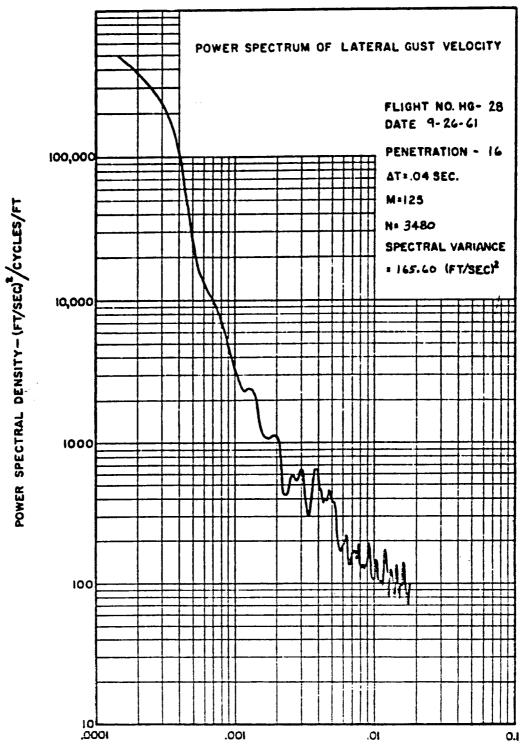
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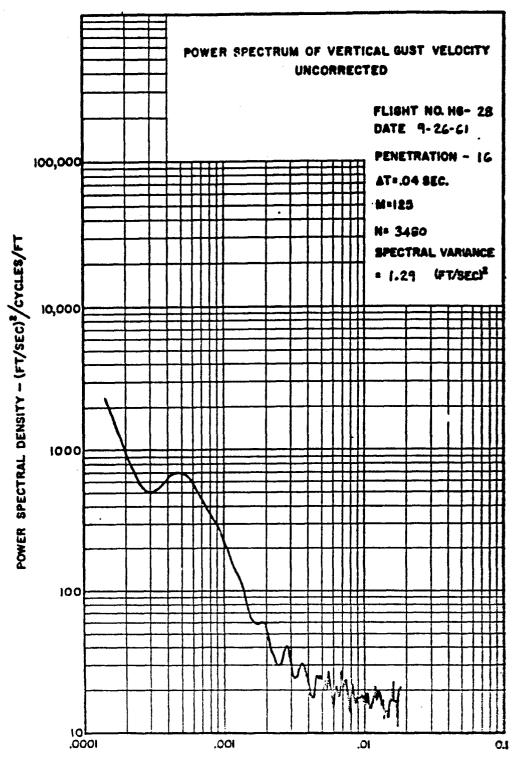
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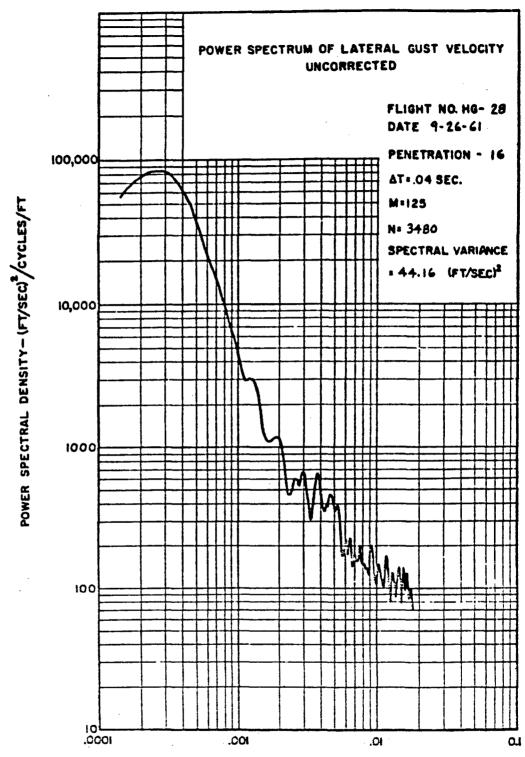
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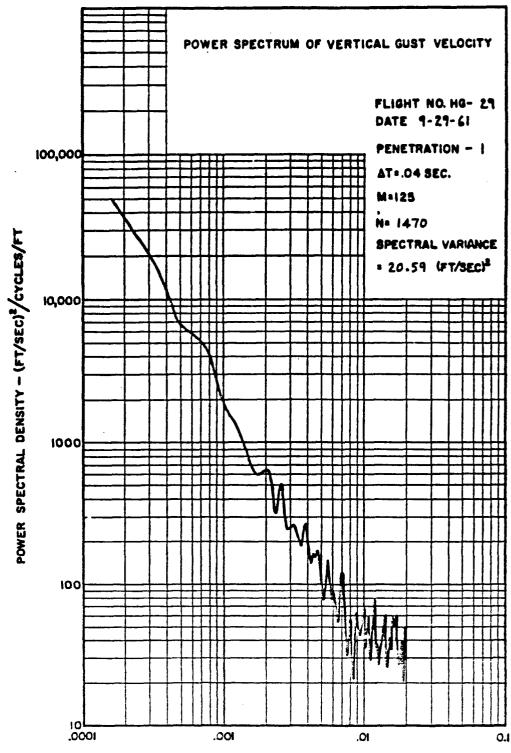
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INVERSE WAVELENGTH-CYCLES/FT



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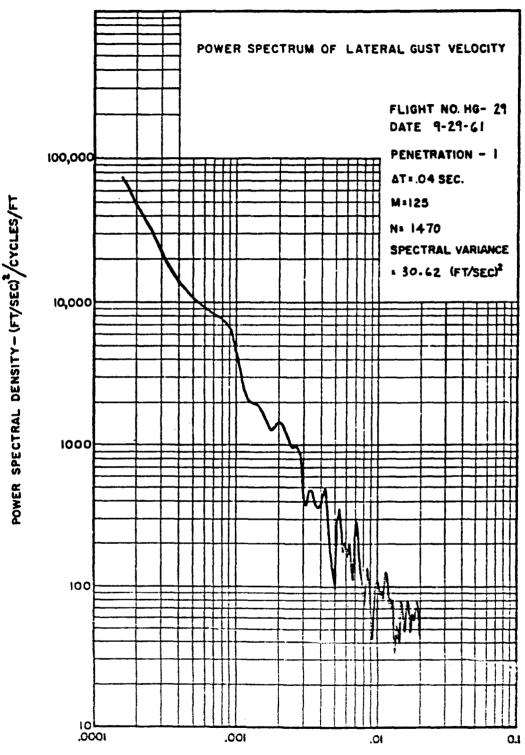
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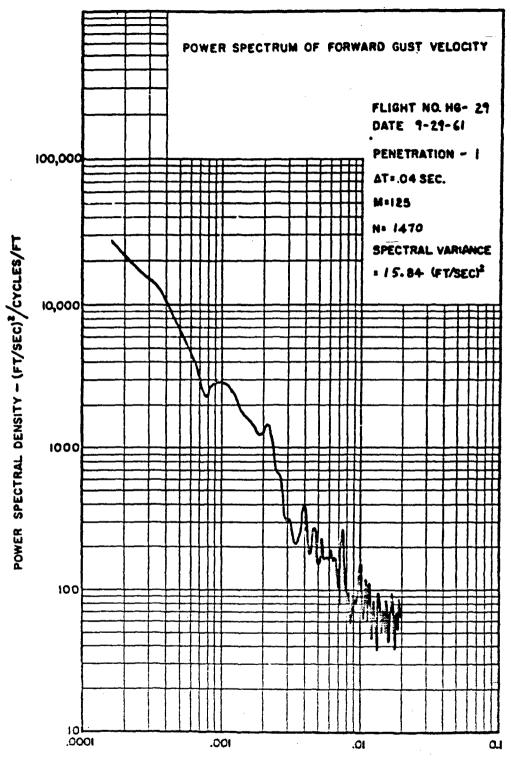
是我更得这样,我也是我看着我的,我也是我的一个,我们也没有一个,我们也会会会会会会会会会会会会会会会会会会会会会会会会会。 1995年,我们也是我们的一个,我们也是我们的一个,我们也是我们的一个,我们也是我们的一个,我们也是我们的一个,我们也是我们的一个,我们也是我们的一个,我们也是

ASO-TOR-43-145 YOLUME 11

INVERSE WAVELENGTH-CYCLES/FT

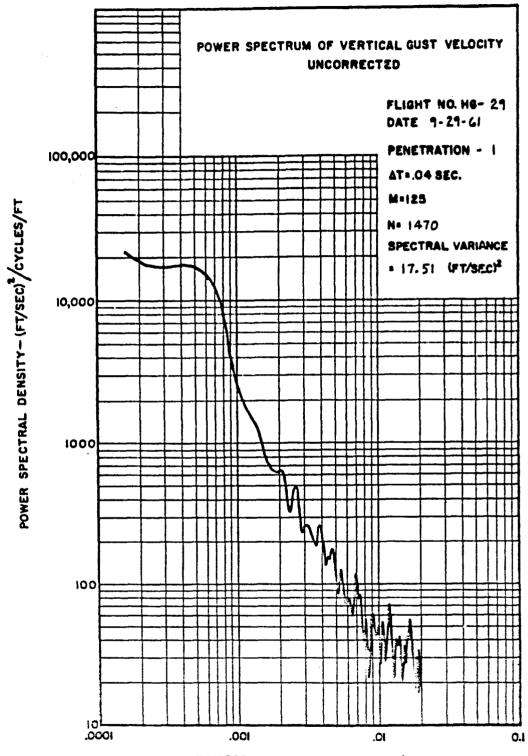


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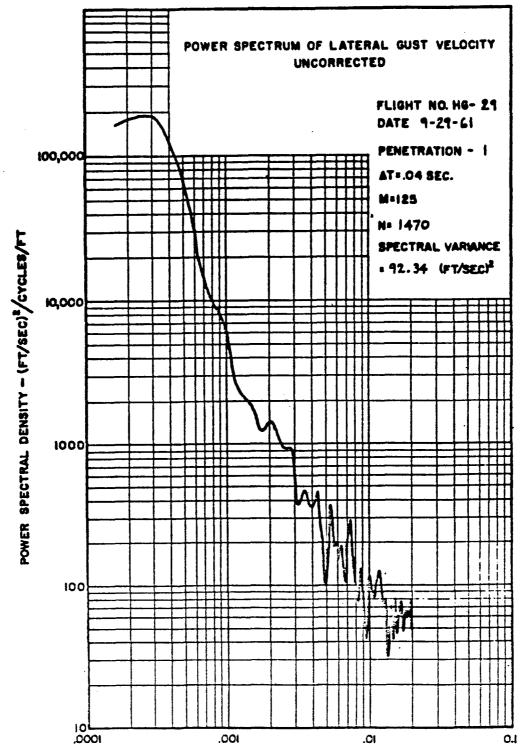
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MYERSE WAVELENGTH-CYCLES/FT



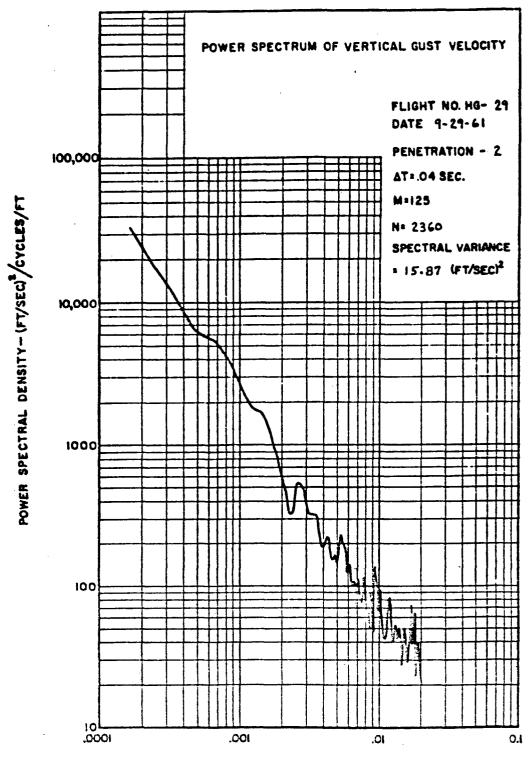
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INVERSE WAVELENGTH-CYCLES/FT



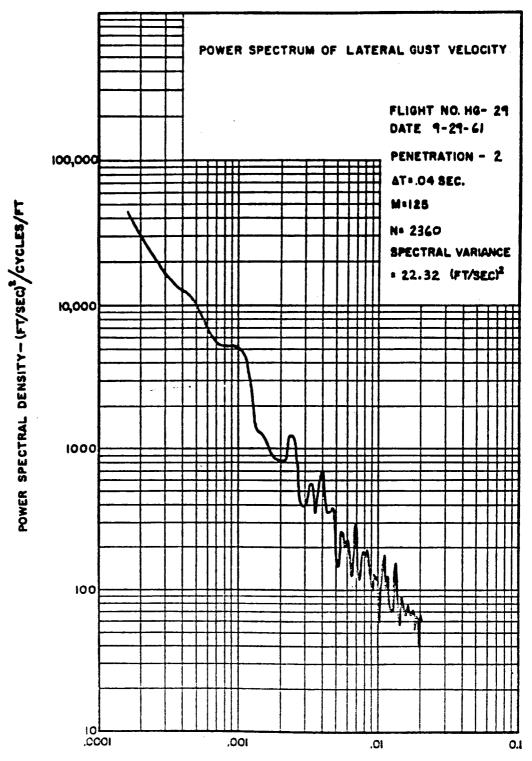
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INVERSE WAVELENGTH-CYCLES/FT



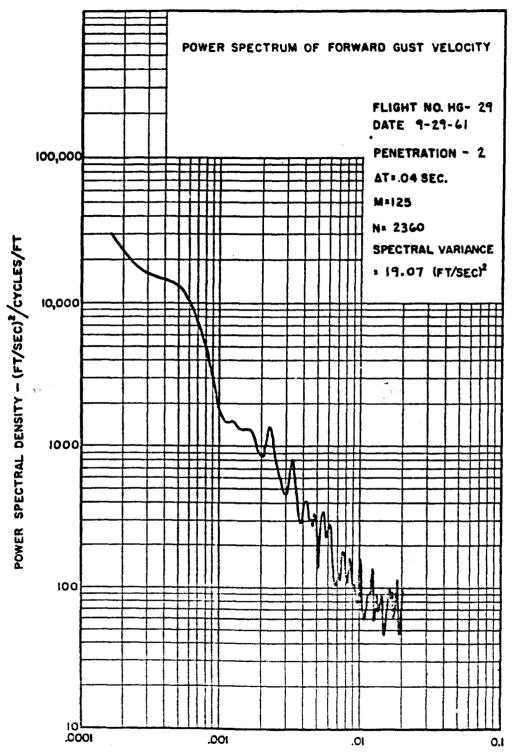
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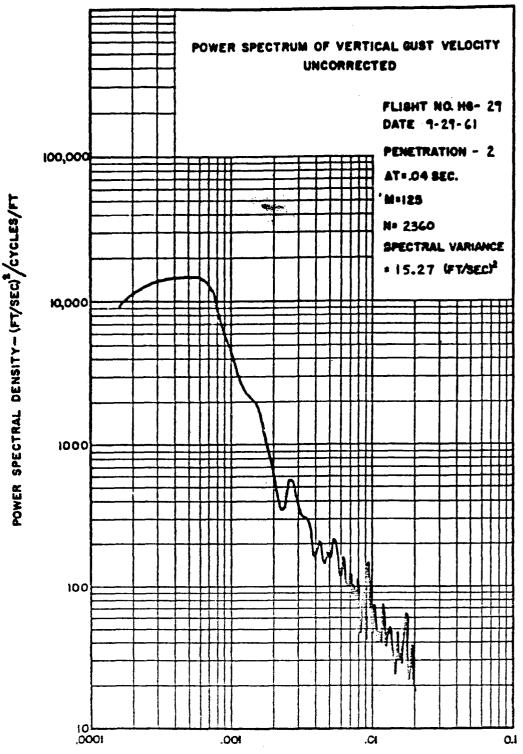
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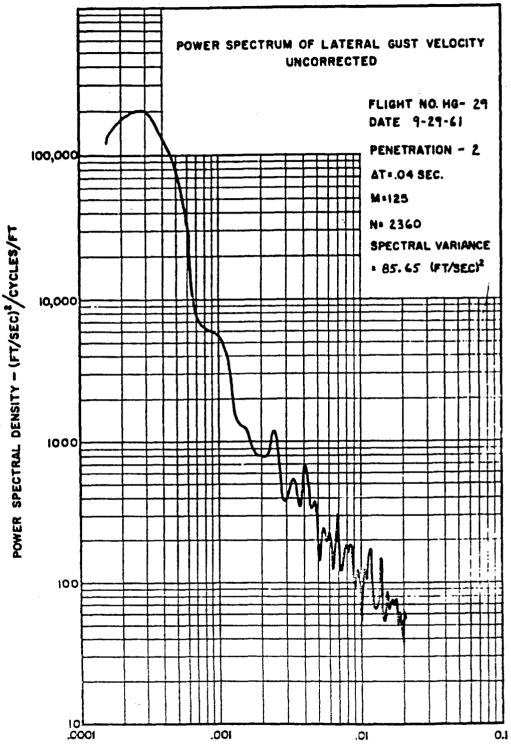
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INVERSE WAVELENGTH-CYCLES/FT



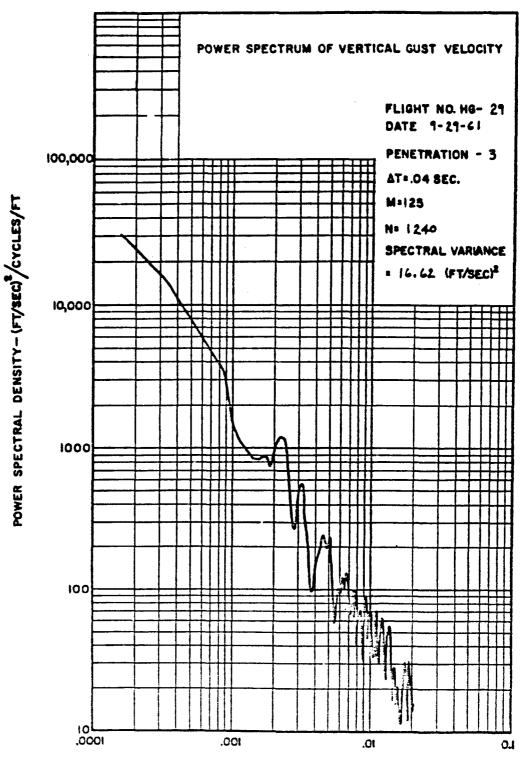
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INVERSE WAVELENGTH-CYCLES/FT



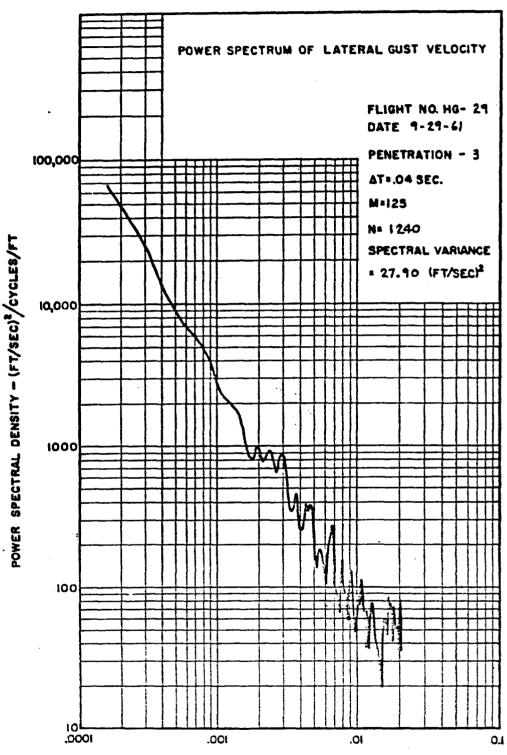
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INVERSE WAVELENGTH-CYCLES/FT

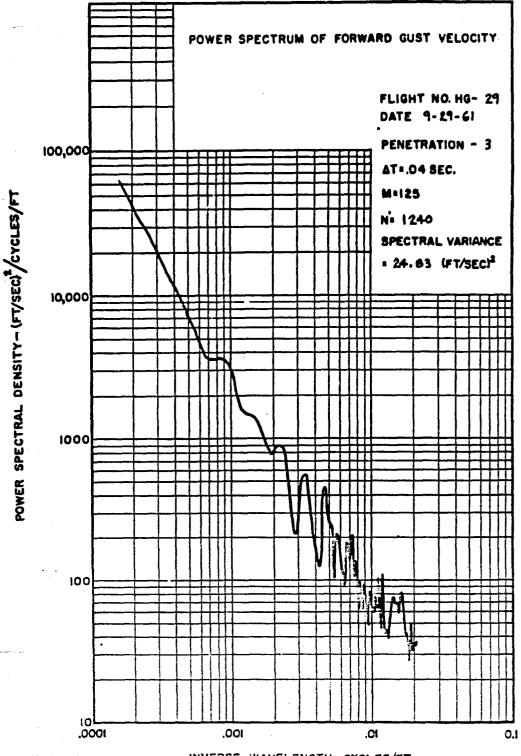


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INVERSE WAVELENGTH-CYCLES/FT

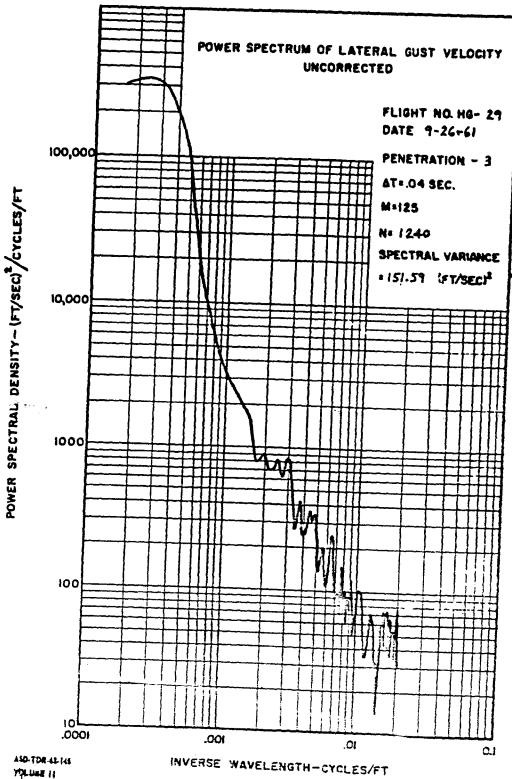


ASSTORALIUS YDLIME II INVERSE WAVELENGTH-CYCLES/FT

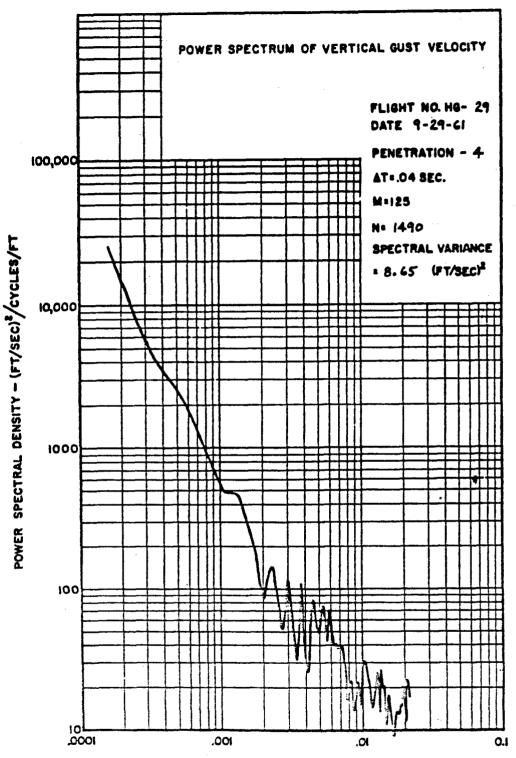


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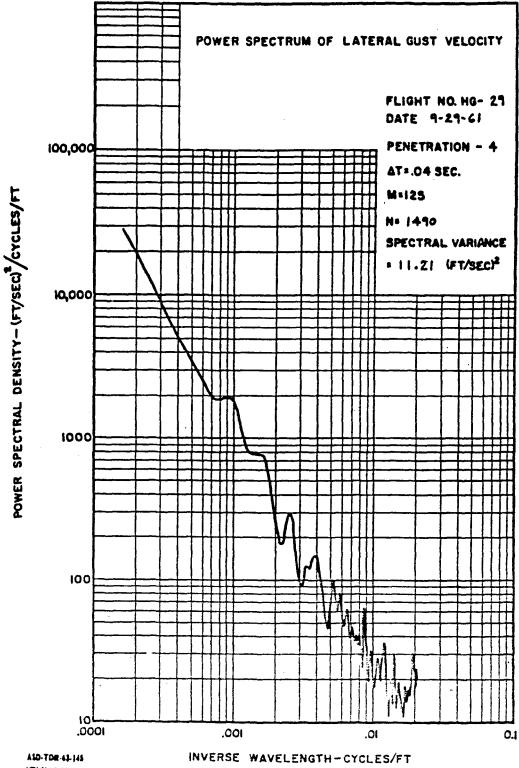


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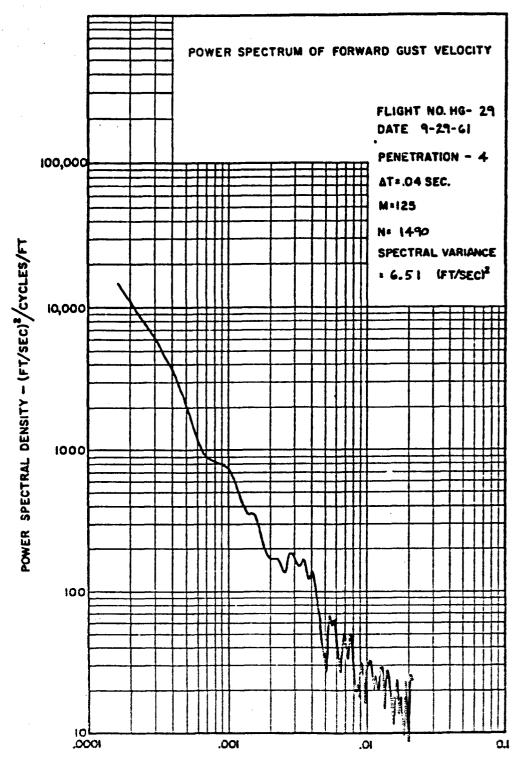


410-TDR-43-145 YDL-146E 11

INVERSE WAVELENGTH-CYCLES/FT

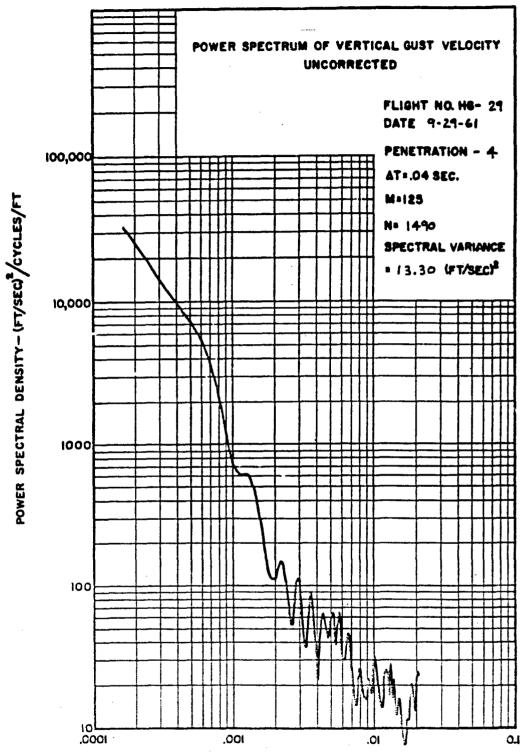


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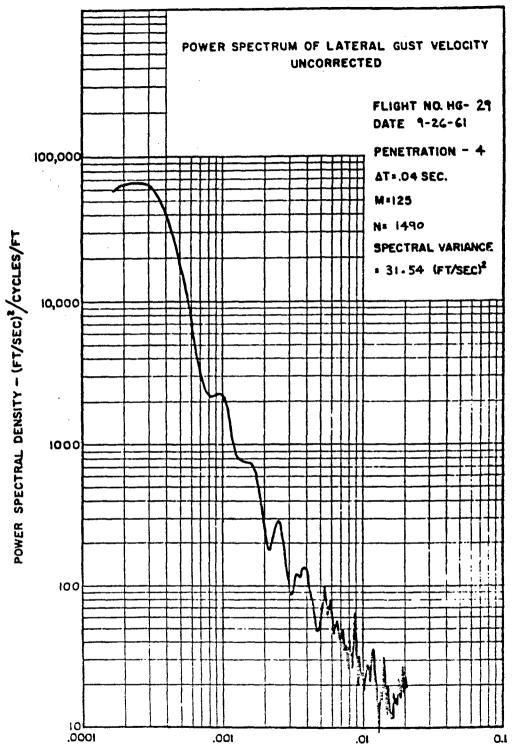


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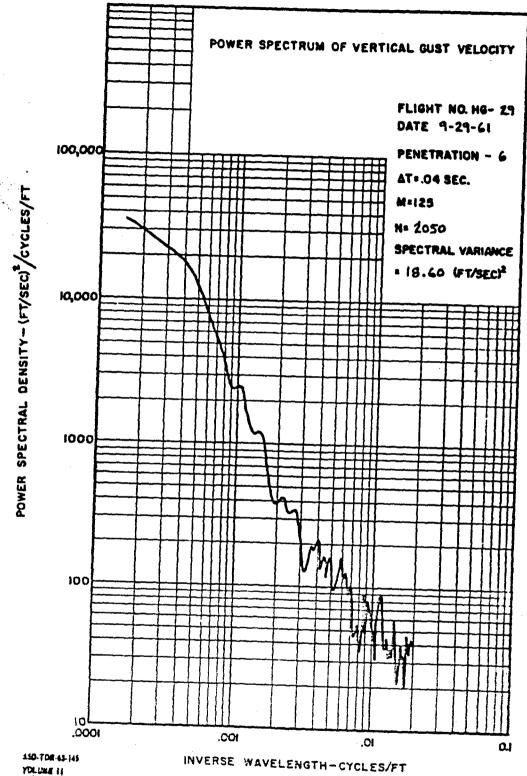
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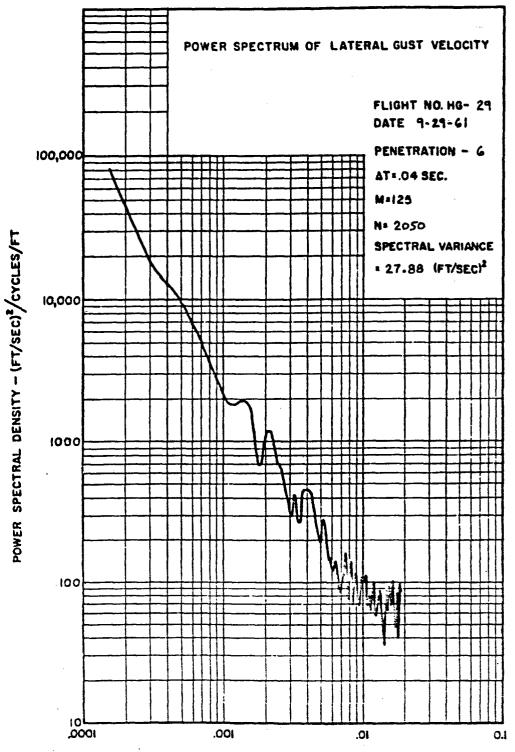
ASD-TOR-43-145 YDLUME II INVERSE WAVELENGTH-CYCLES/FT



ASD-TDR-63-145 YOLUME 11 INVERSE WAVELENGTH-CYCLES/FT

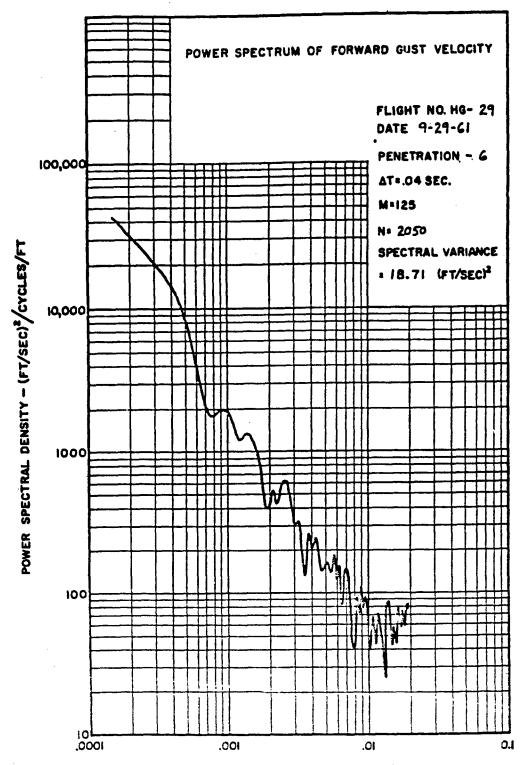


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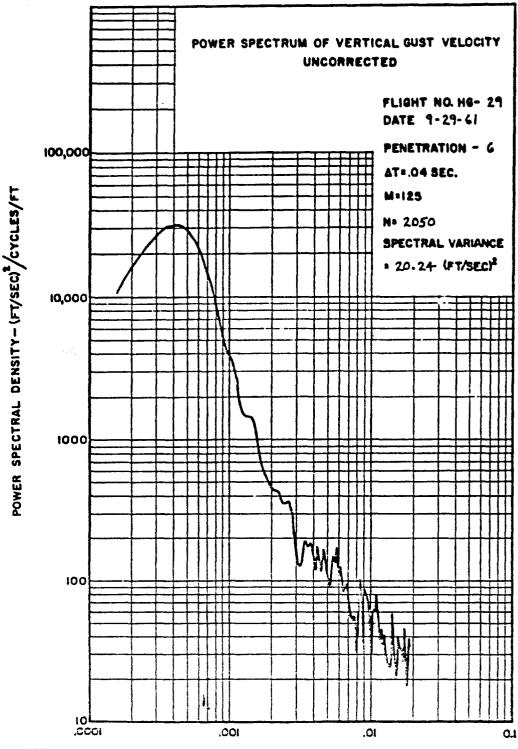
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INVERSE WAVELENGTH-CYCLES/FT



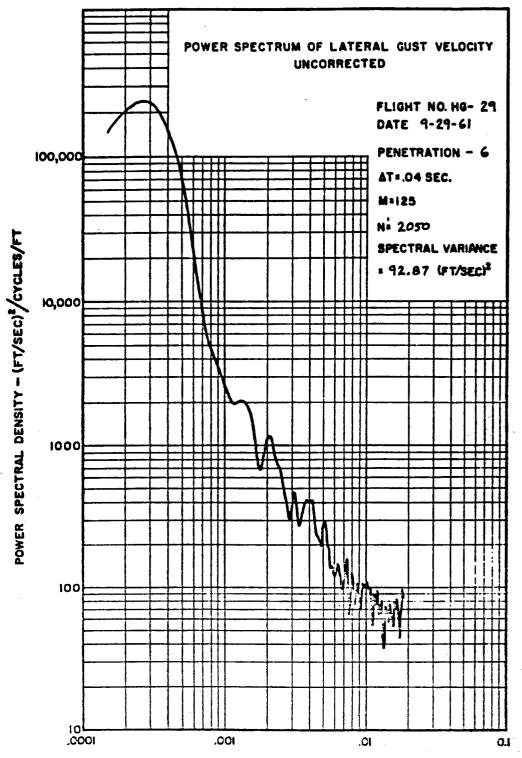
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INVERSE WAVELENGTH-CYCLES/FT



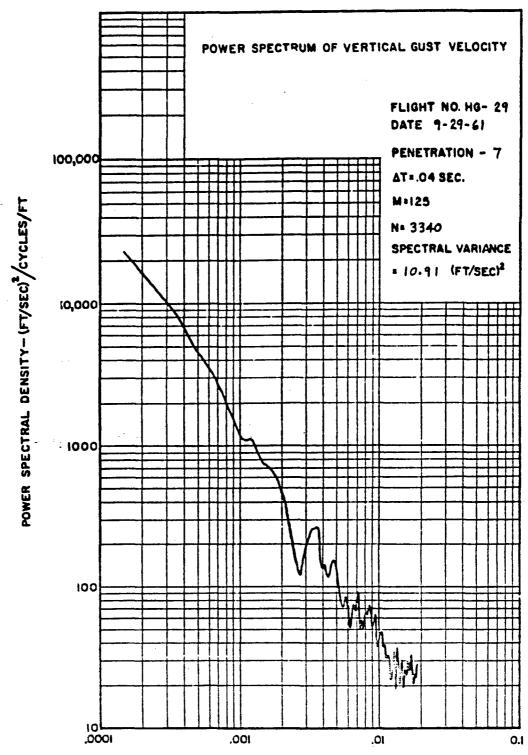
AND-TORALIAS YDLUME II

INVERSE WAVELENGTH-CYCLES/FT



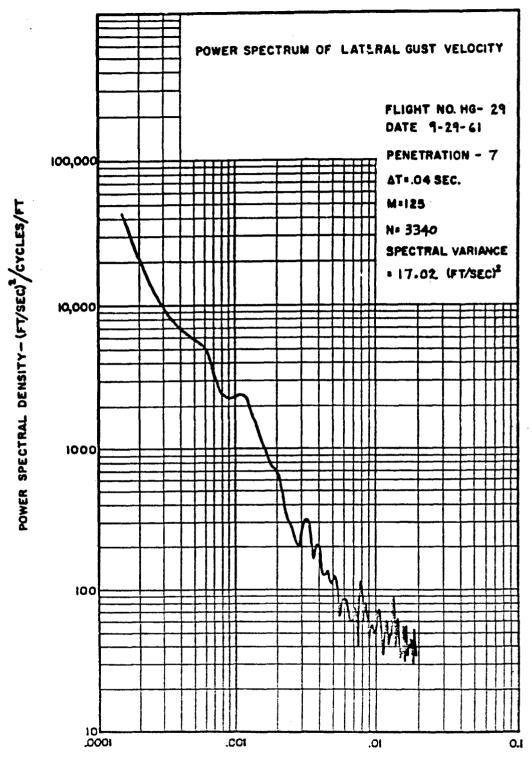
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INVERSE WAVELENGTH-CYCLES/FT



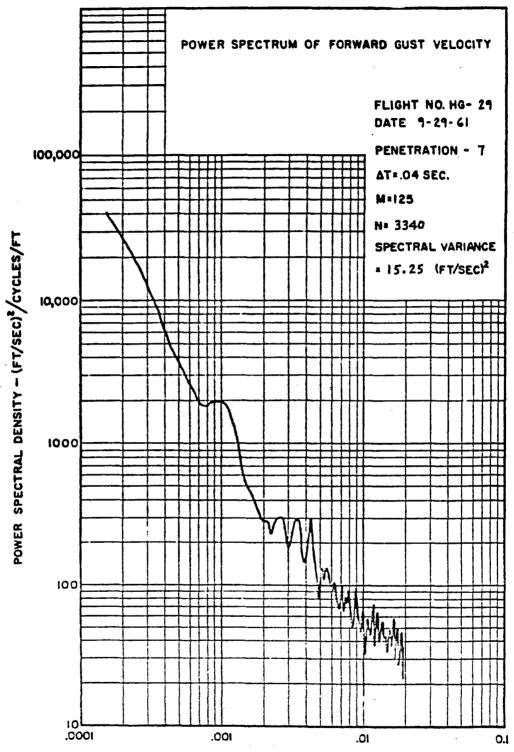
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INVERSE WAVELENGTH-CYCLES/FT

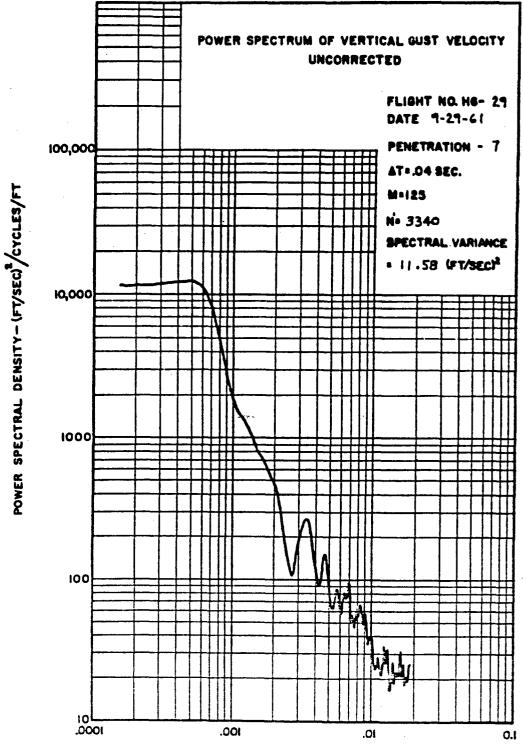


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INVERSE WAVELENGTH-CYCLES/FT

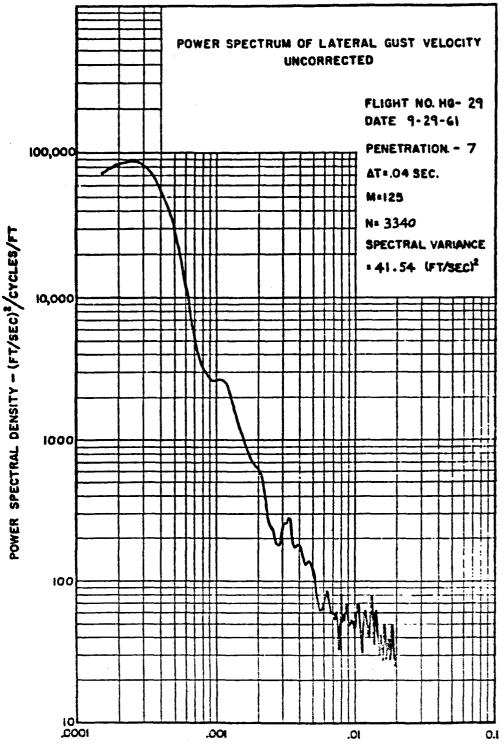


310-TDR-43-145 YDLUME 11 INVERSE WAVELENGTH-CYCLES/FT



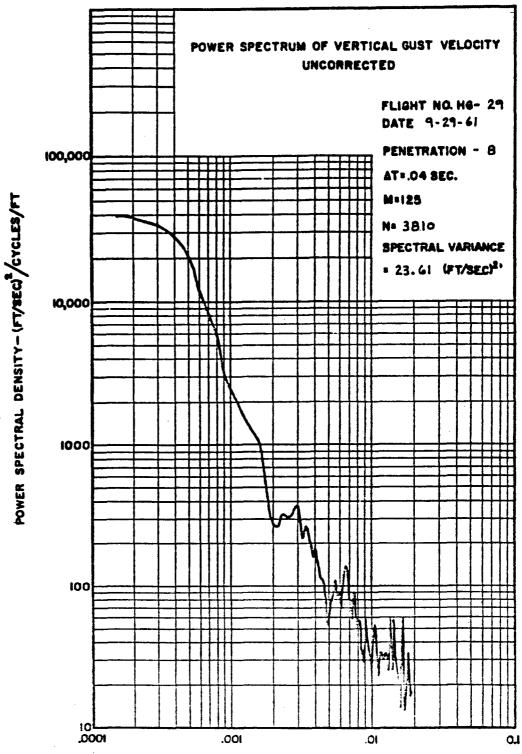
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INVERSE WAVELENGTH-CYCLES/FT

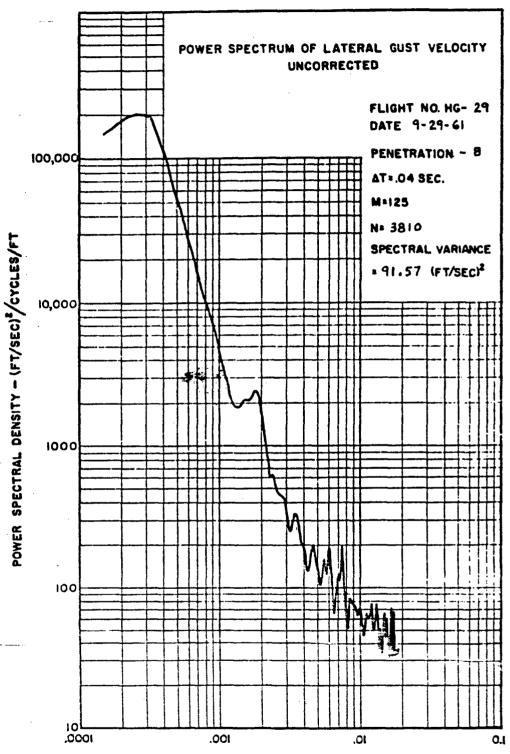


ASO-TOR-AT-145 YOU WAR 11

INVERSE WAVELENGTH-CYCLES/FT

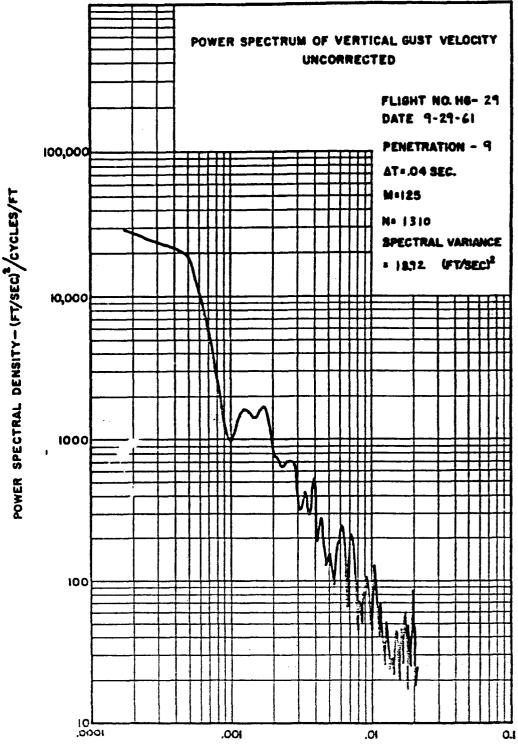


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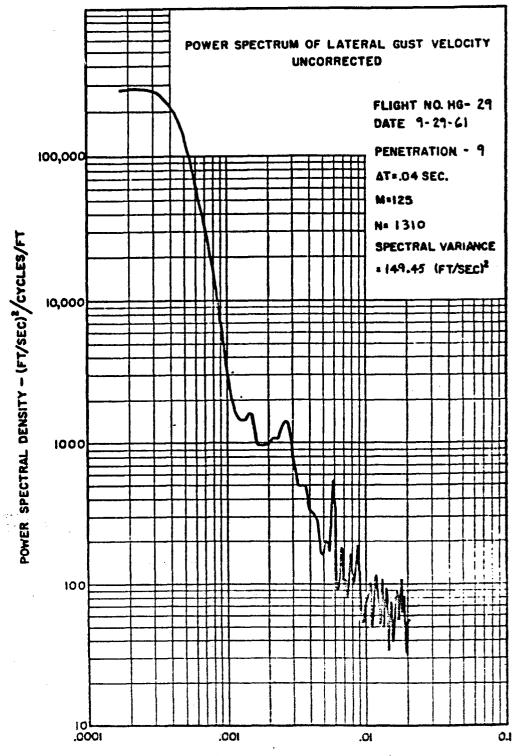
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INVERSE WAVELENGTH-CYCLES/FT

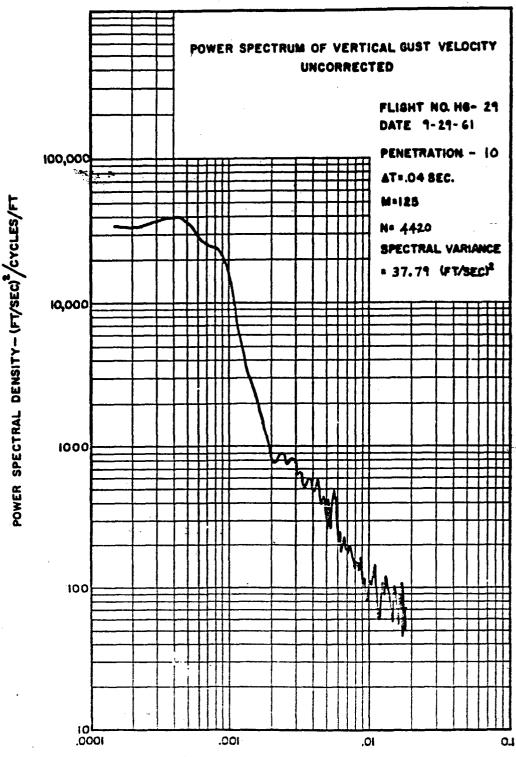


ACTINE II

INVERSE WAVELENGTH-CYCLES/FT

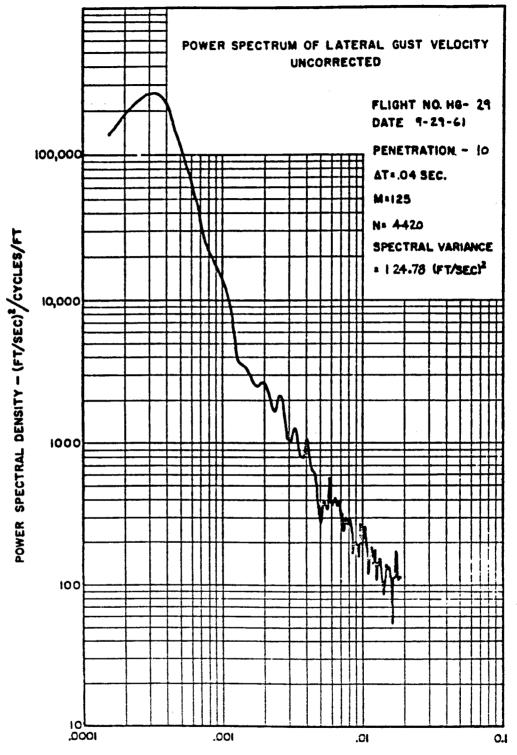


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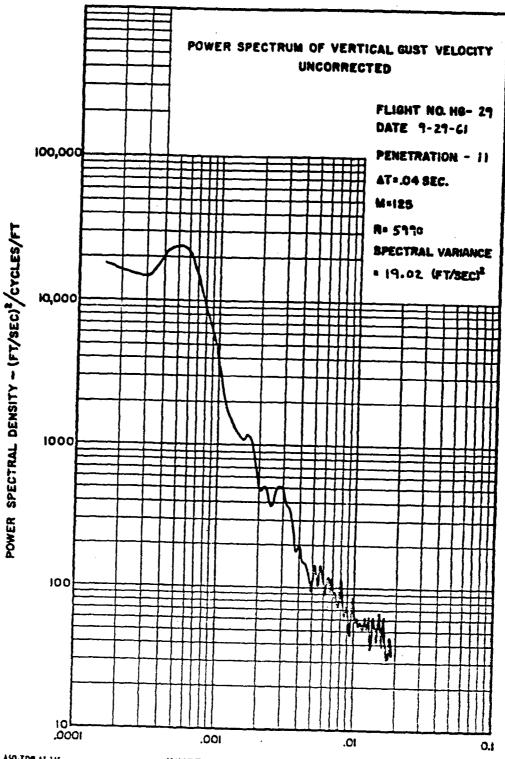
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INVERSE WAVELENGTH-CYCLES/FT

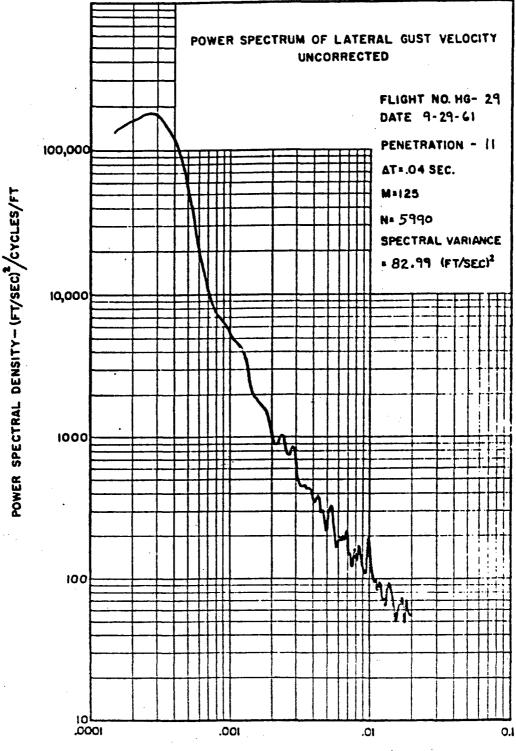


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INVERSE WAVELENGTH-CYCLES/FT

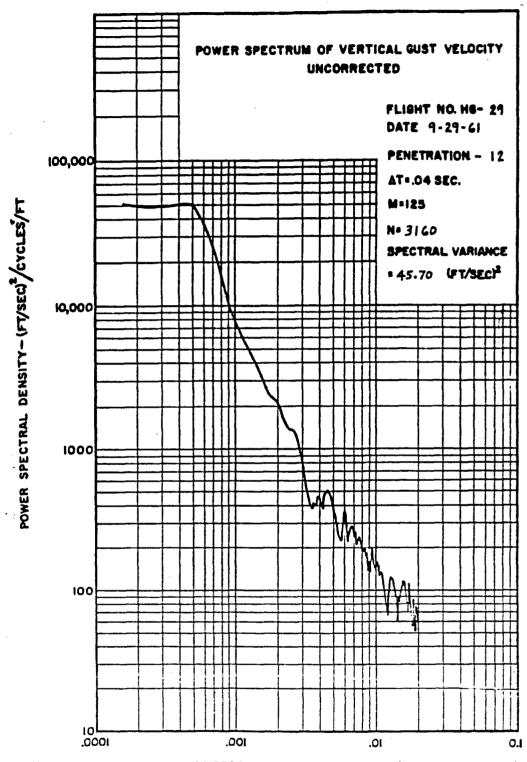


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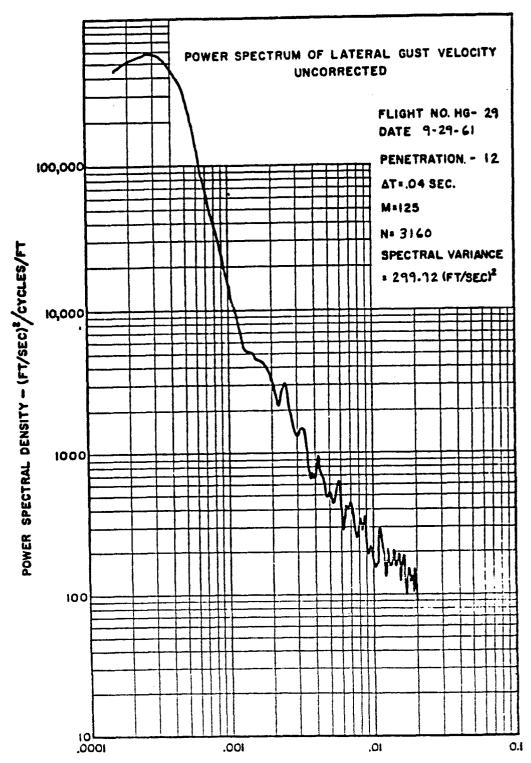
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INVERSE WAVELENGTH-CYCLES/FT



ASD-TOR-63-145 WOLLING 11

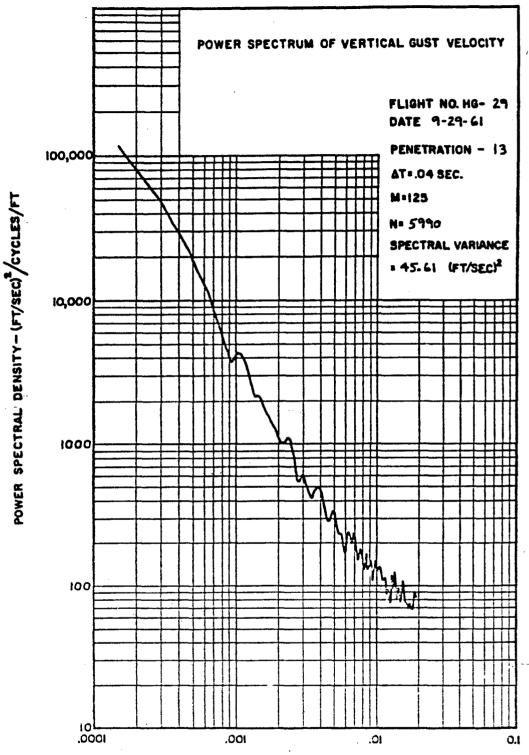
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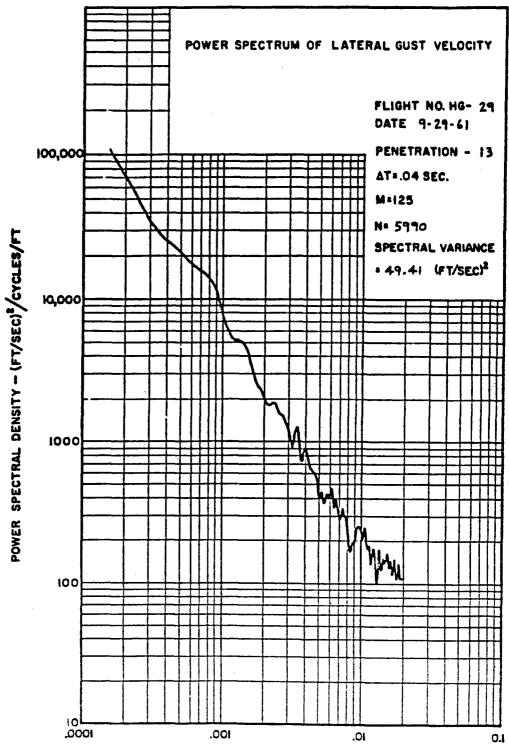
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YOLUME !!



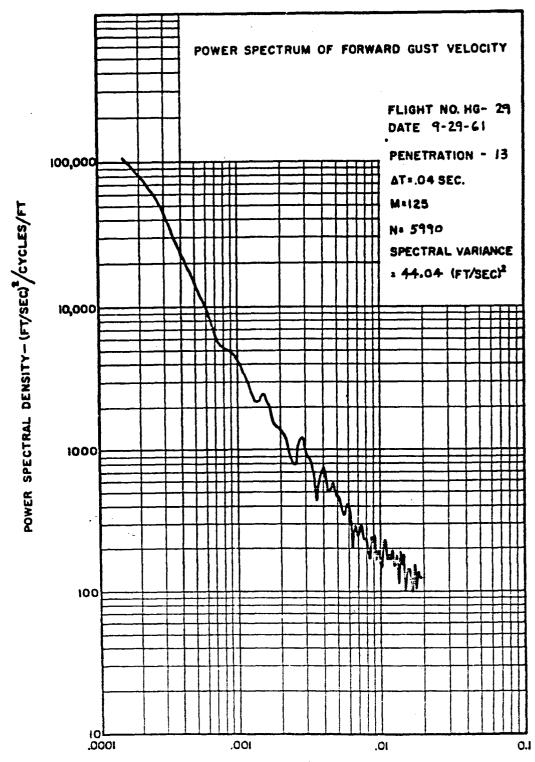
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INVERSE WAVELENGTH-CYCLES/FT



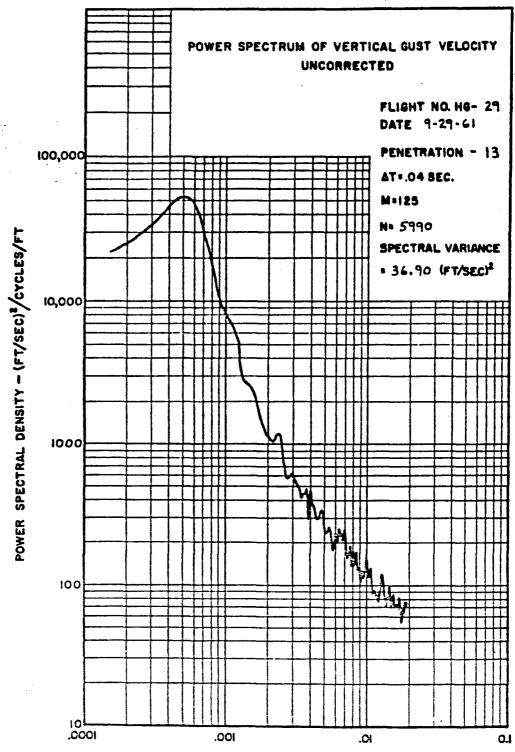
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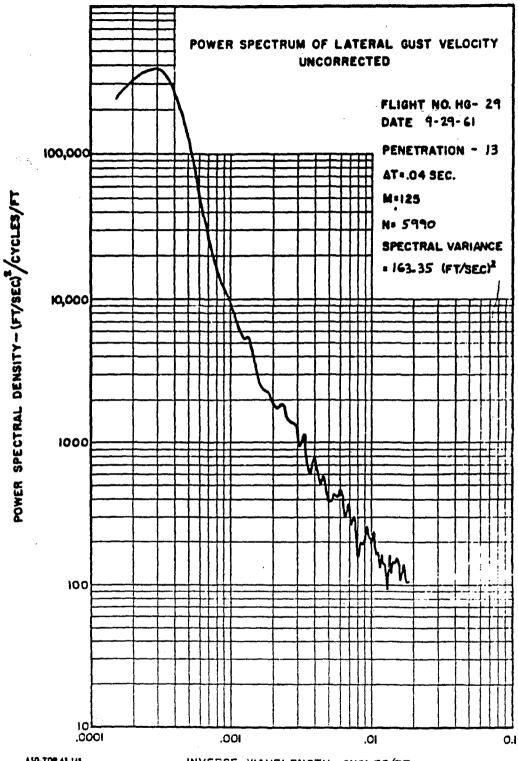
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INVERSE WAVELENGTH-CYCLES/FT



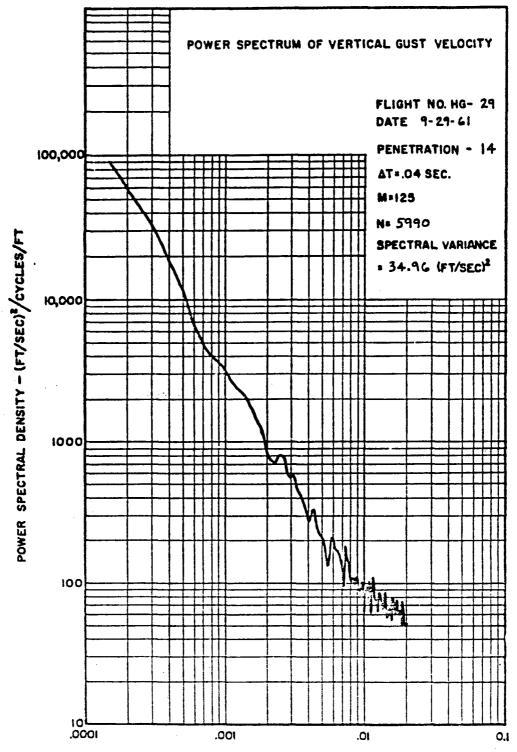
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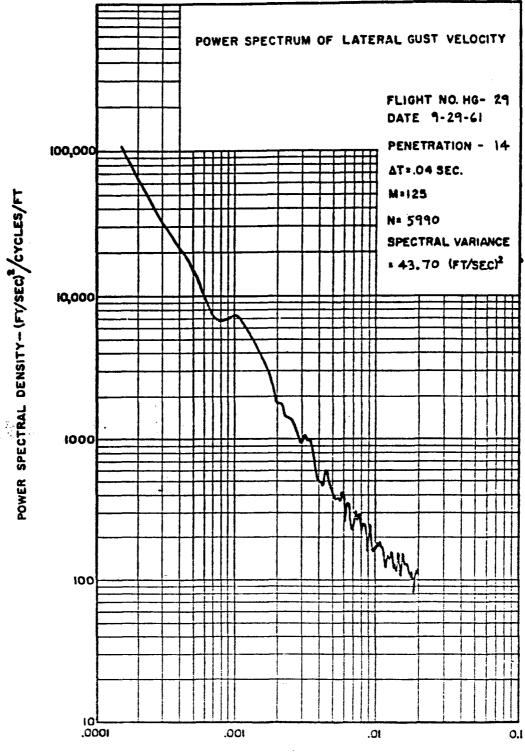


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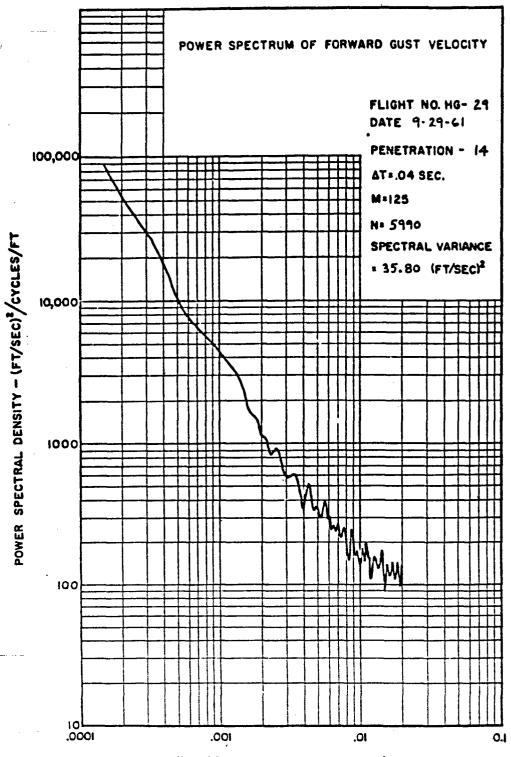


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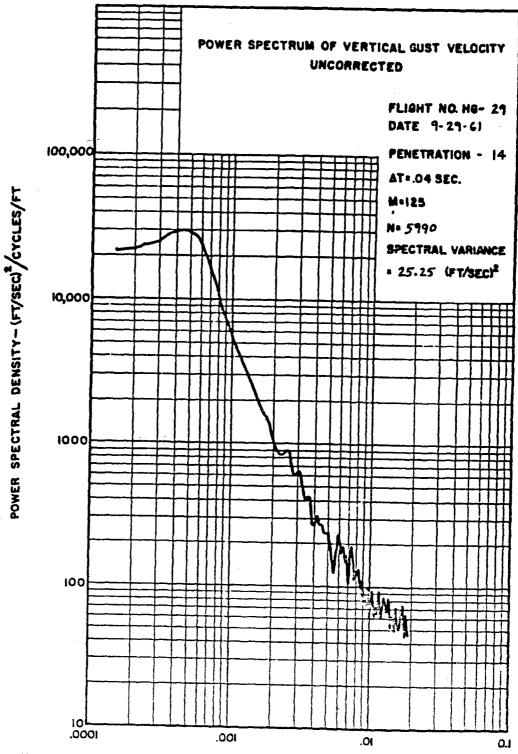
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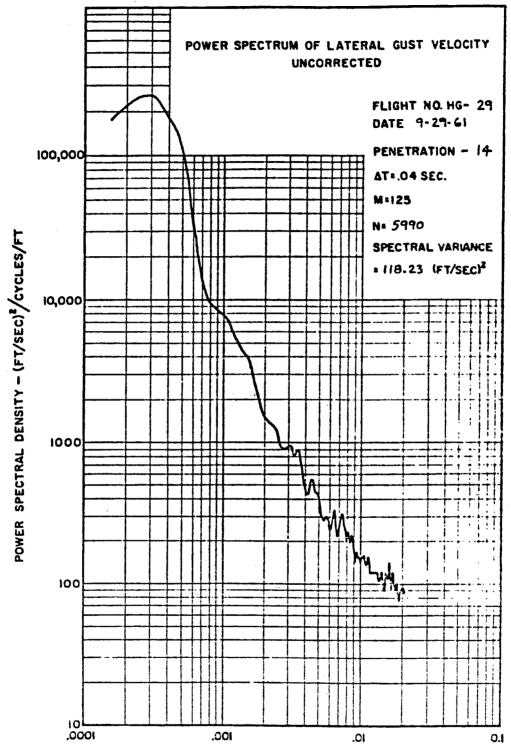
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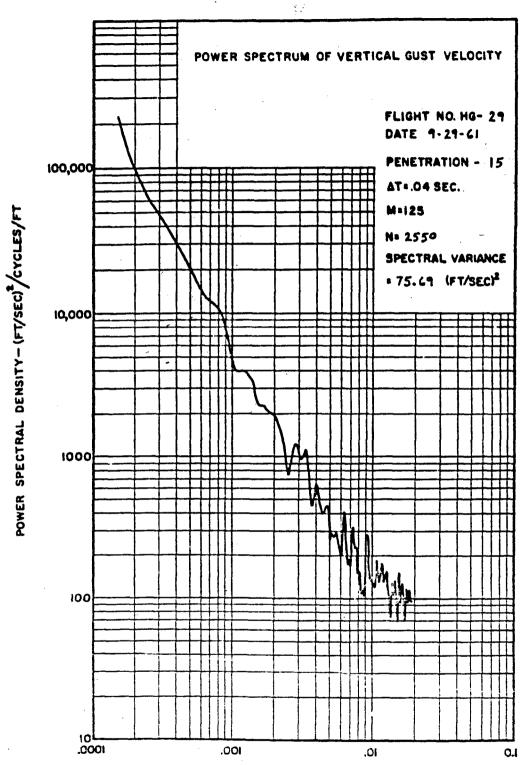
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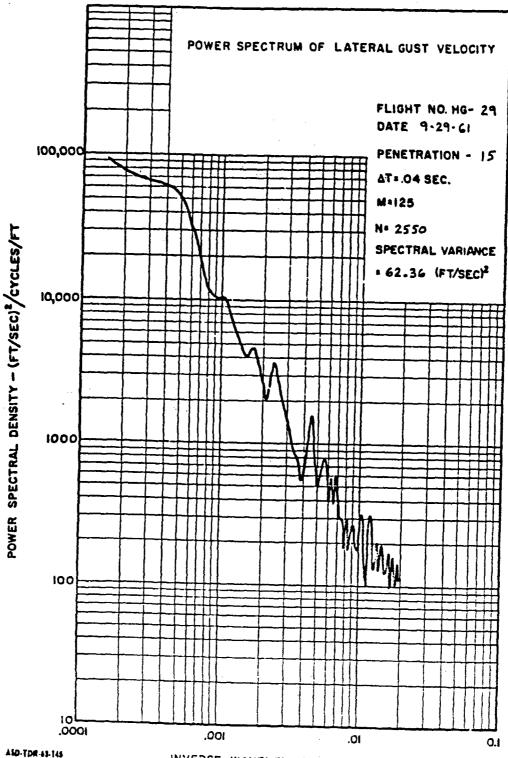
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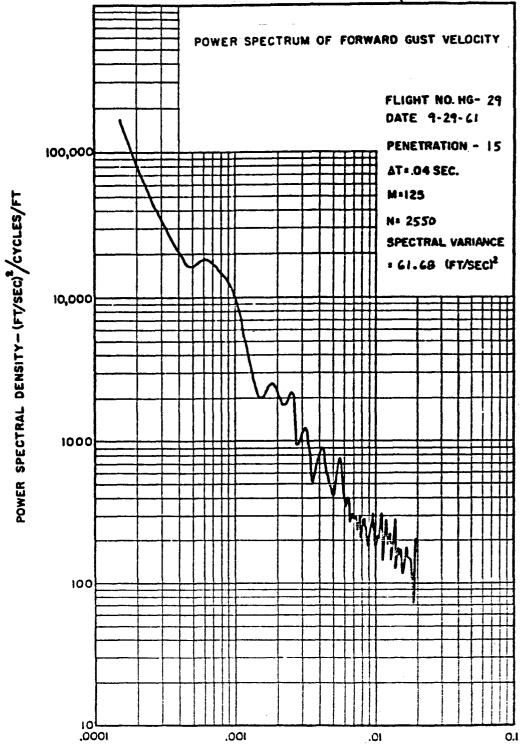


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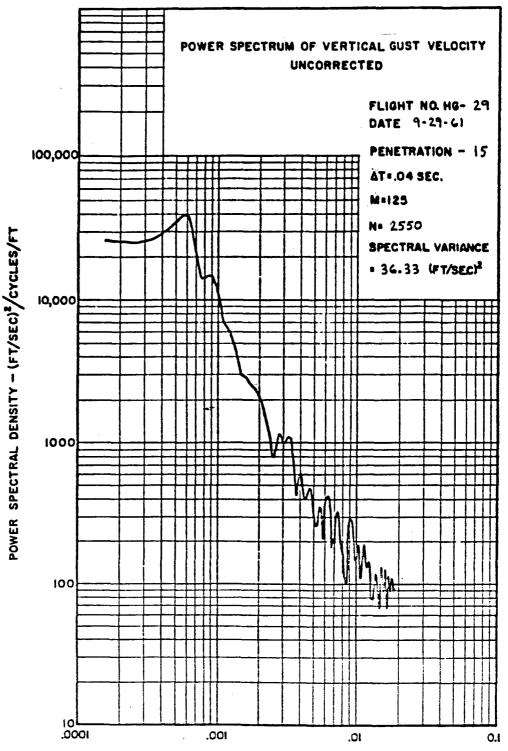


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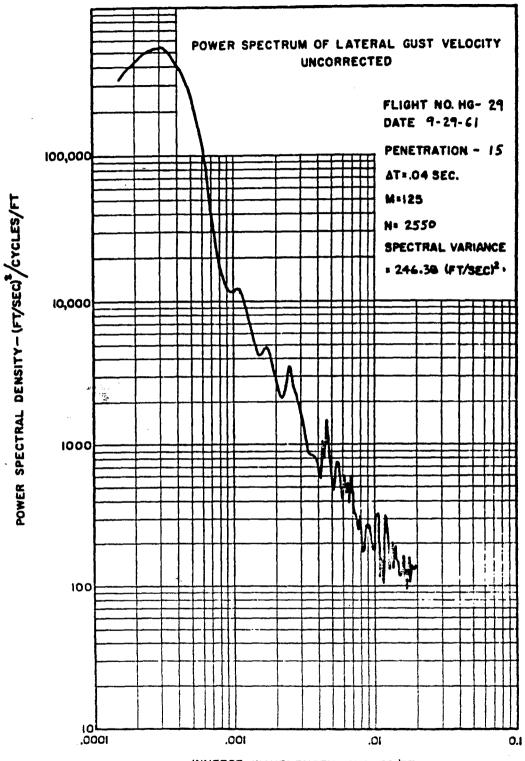
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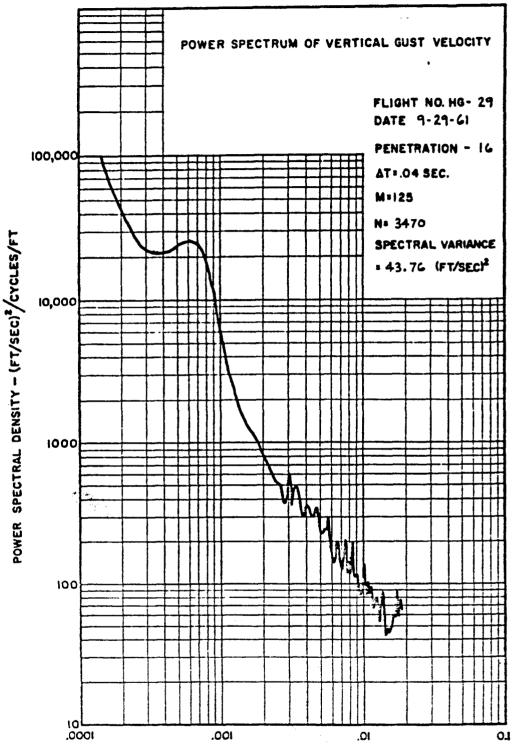
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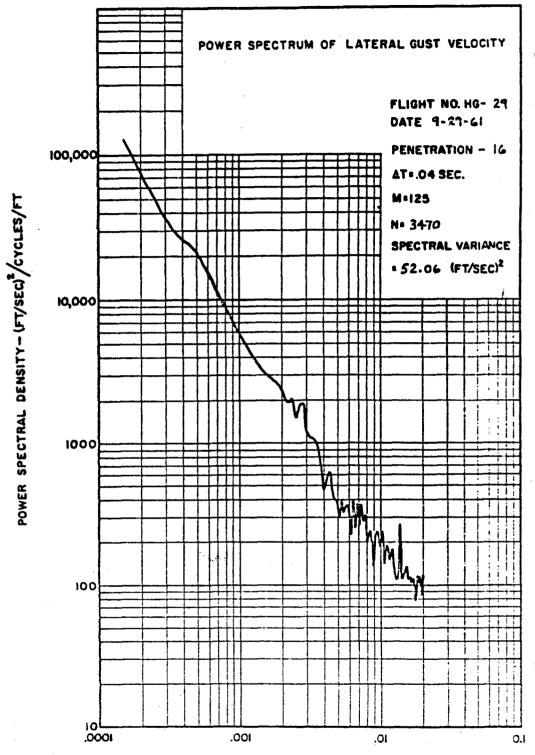
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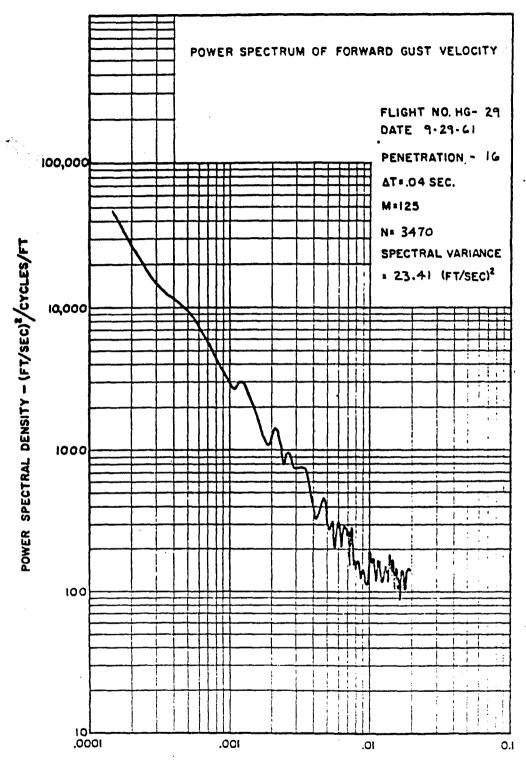
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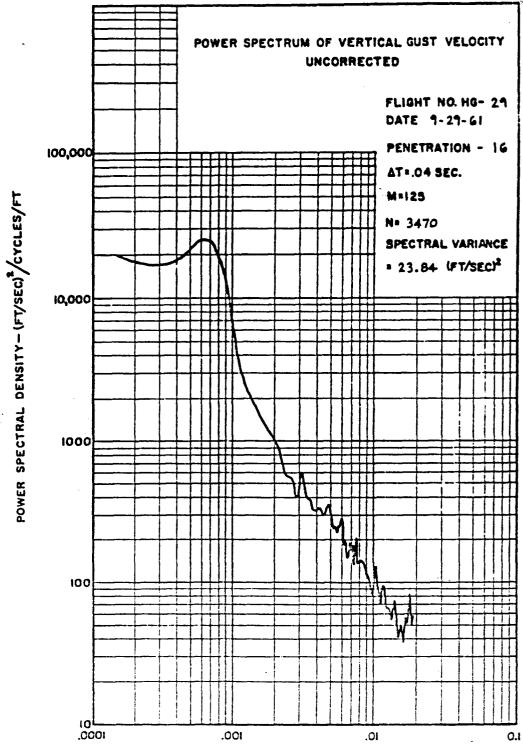
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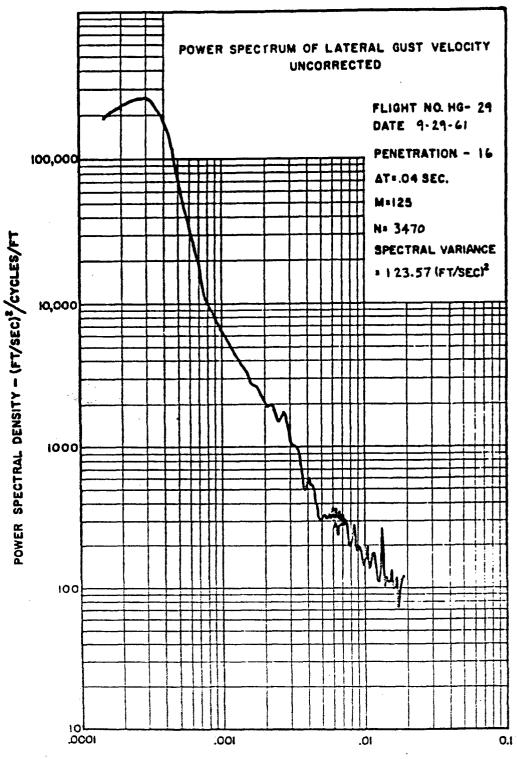
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224



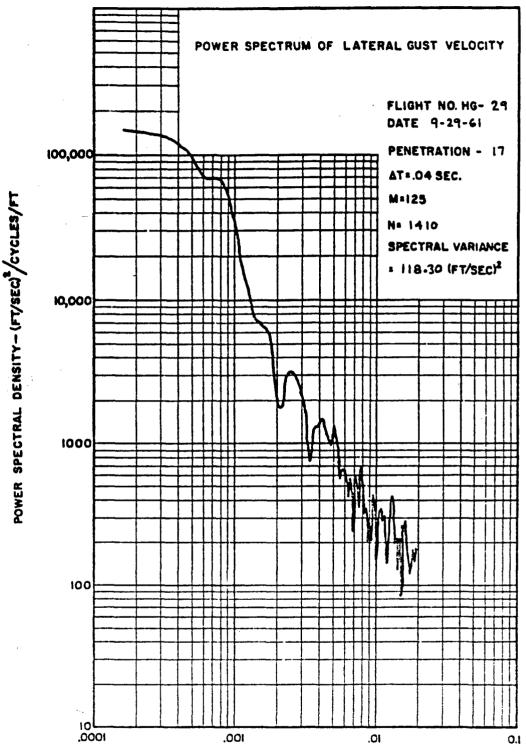
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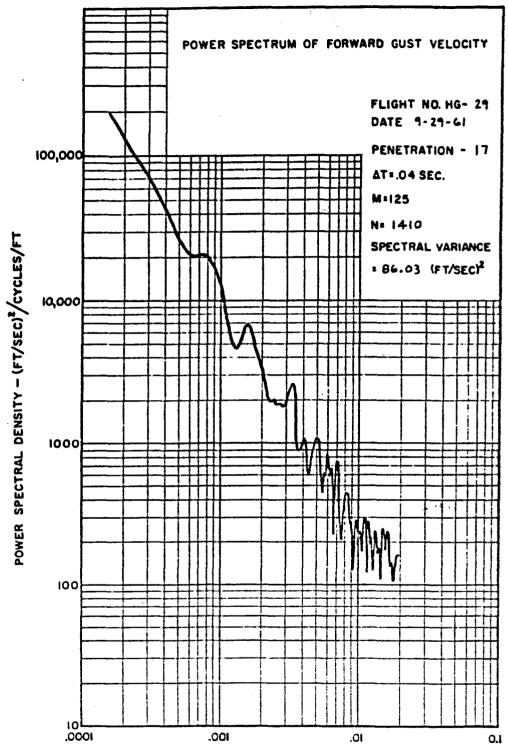
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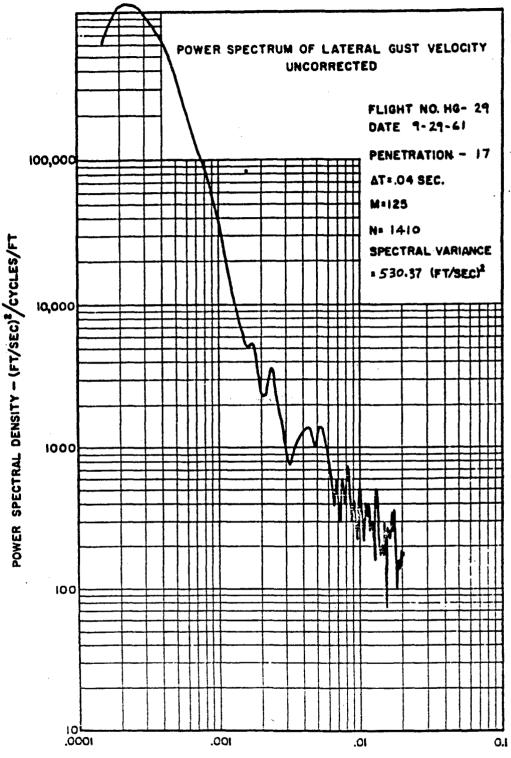
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INVERSE WAVELENGTH-CYCLES/FT

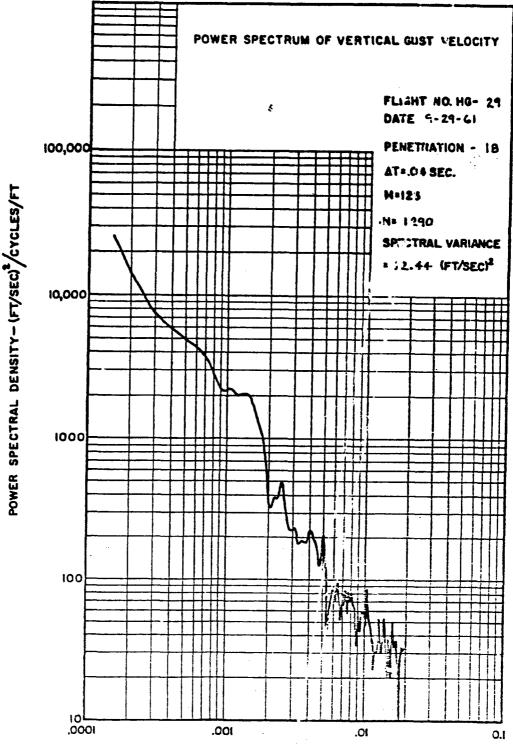


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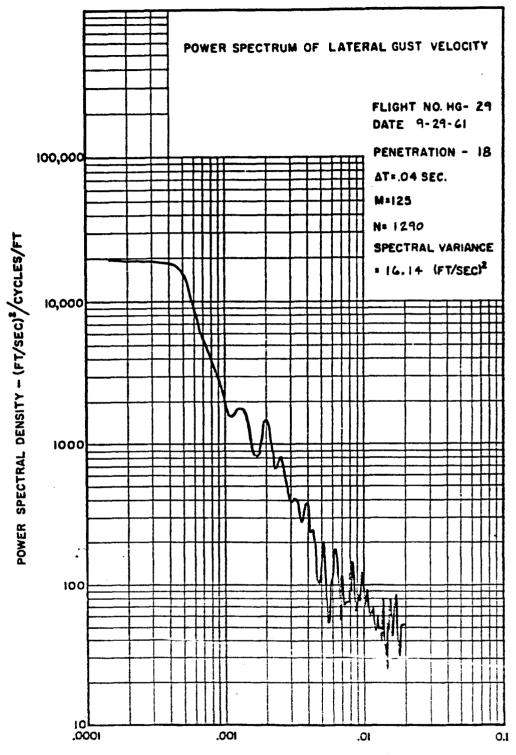


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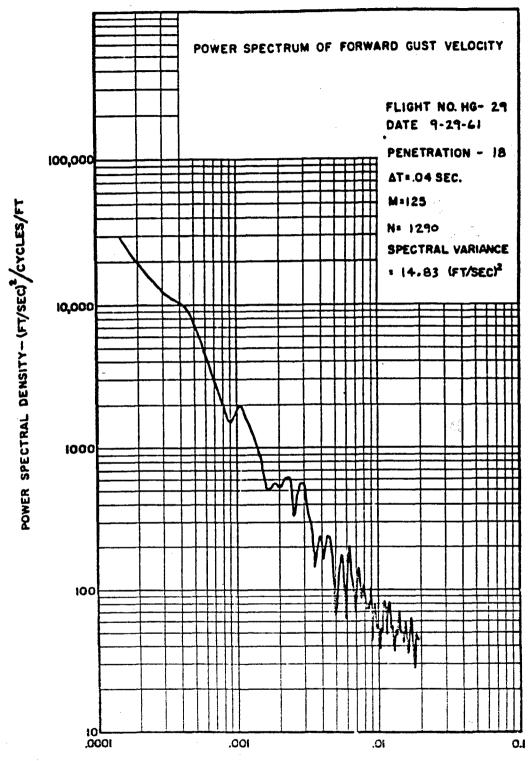


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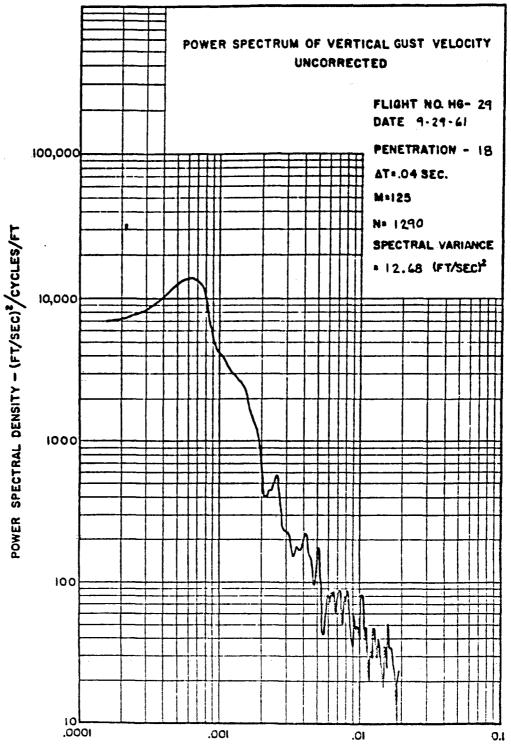
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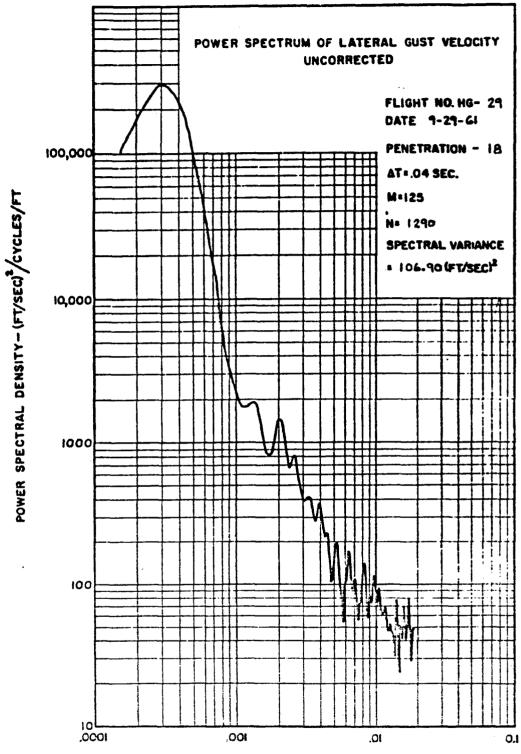


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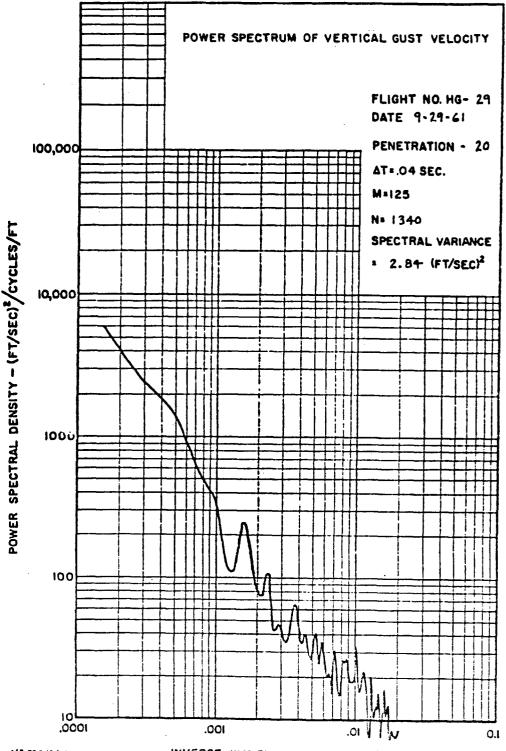
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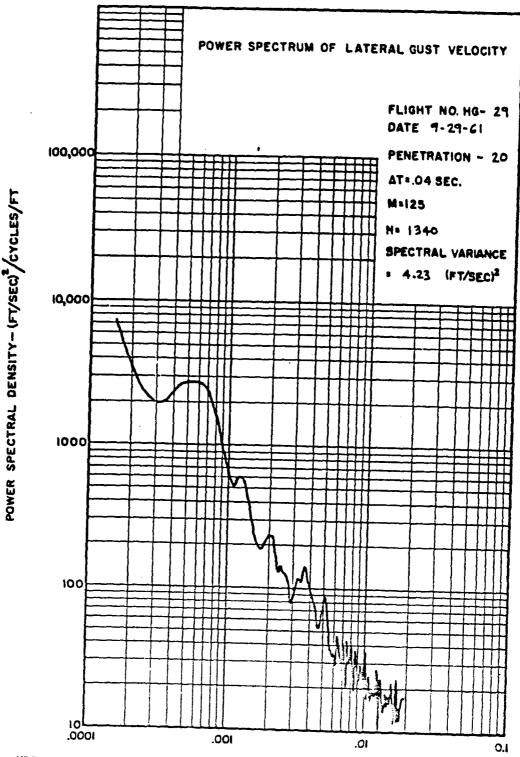


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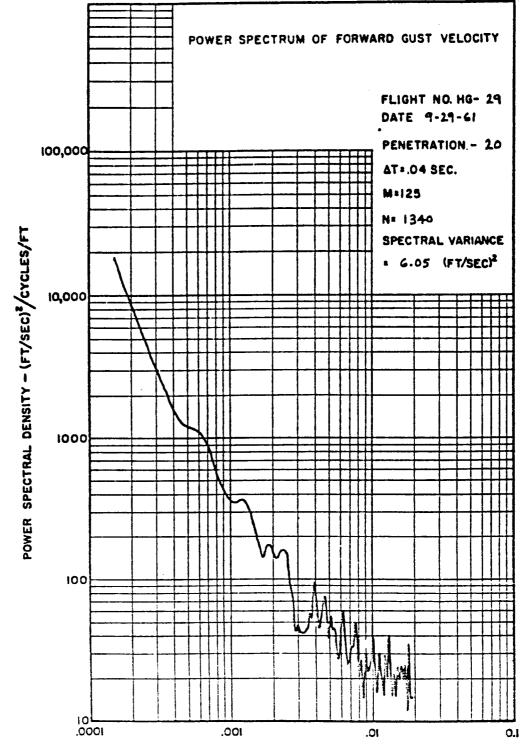


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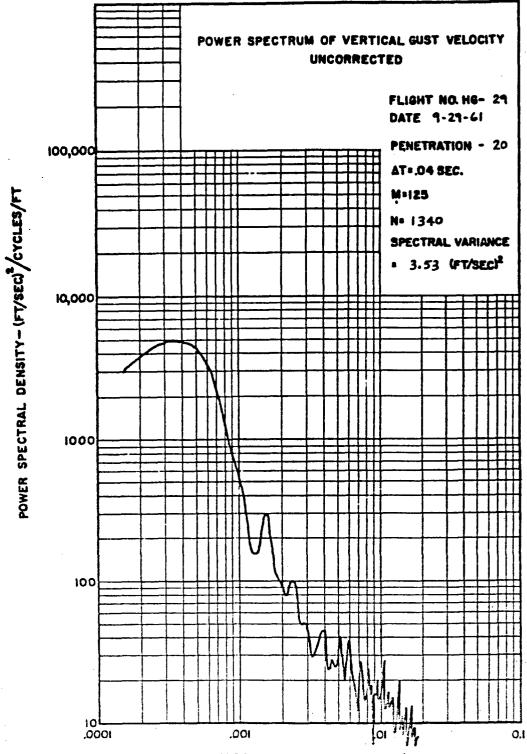
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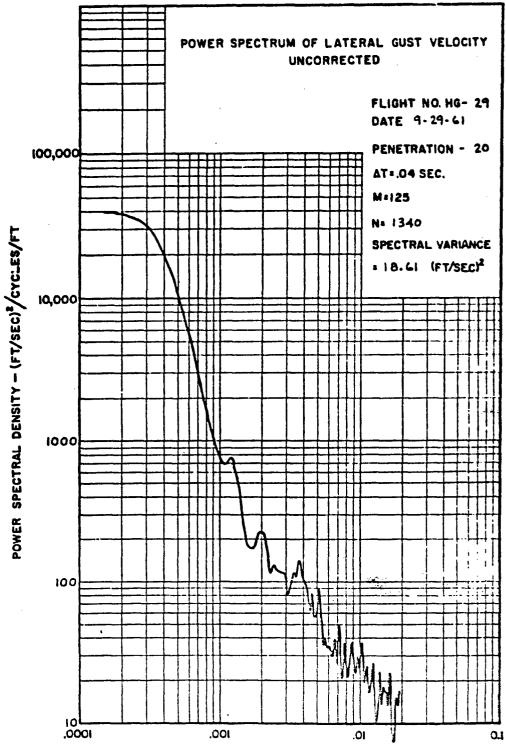
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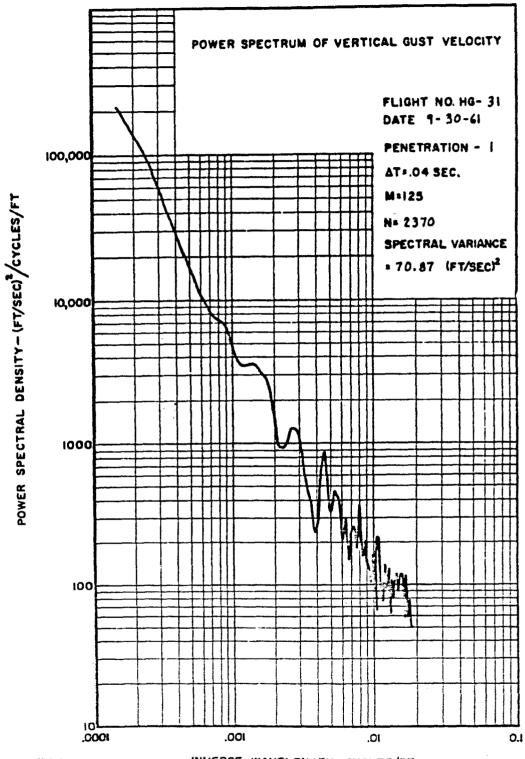
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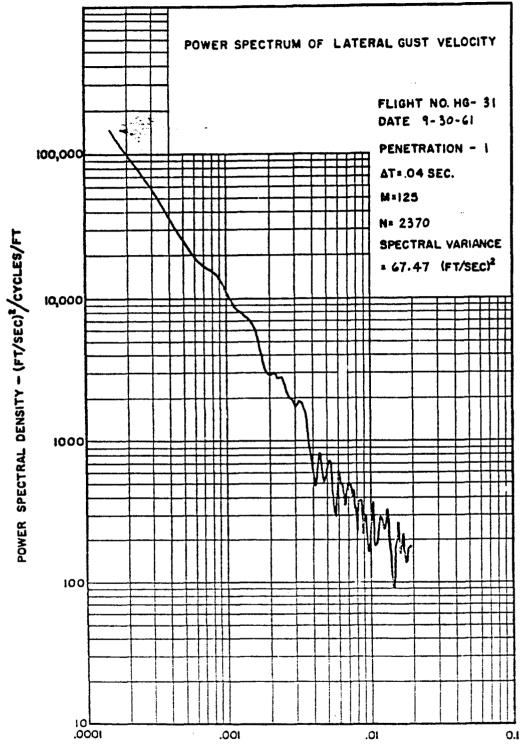


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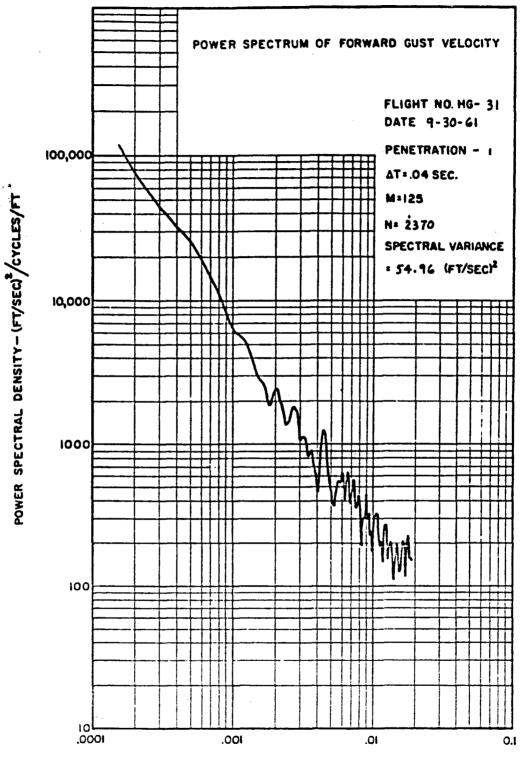


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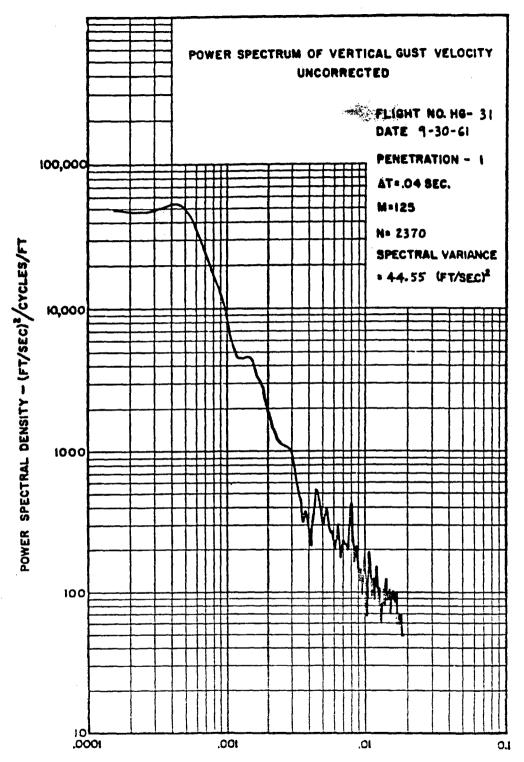
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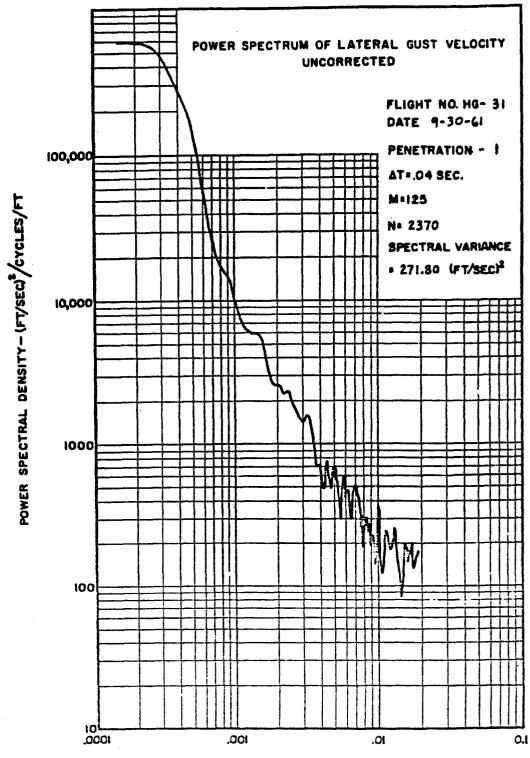
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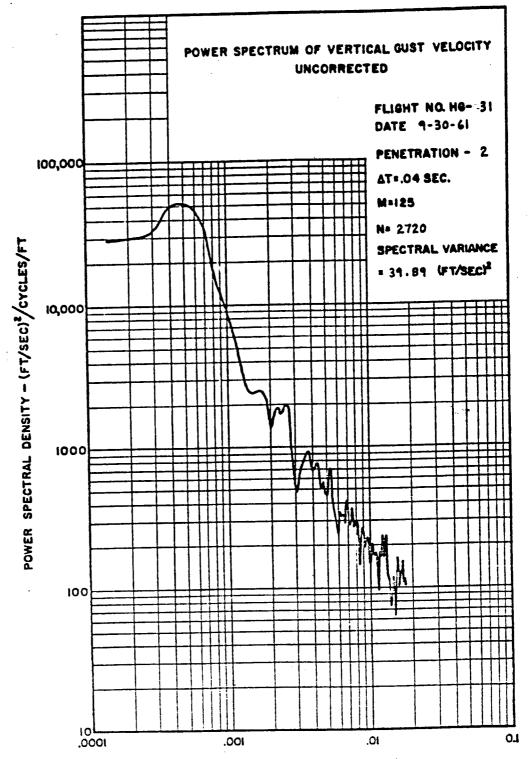
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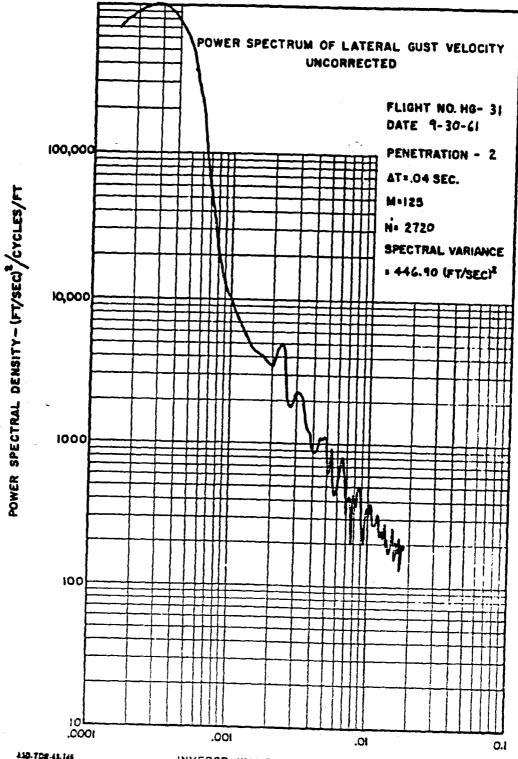
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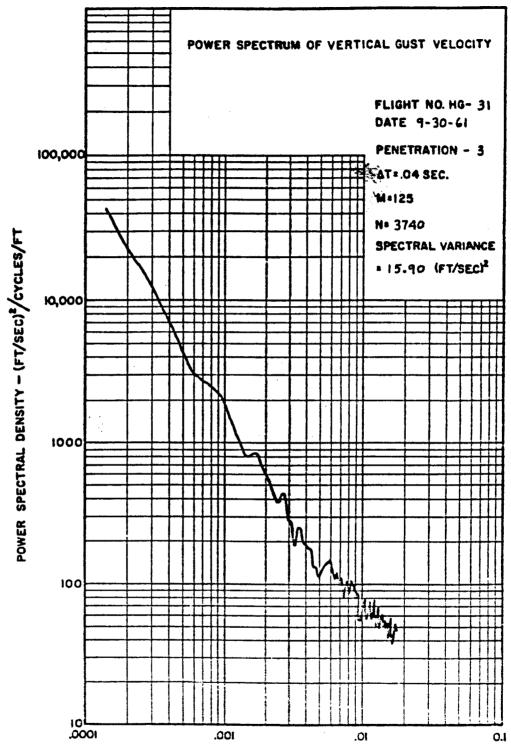


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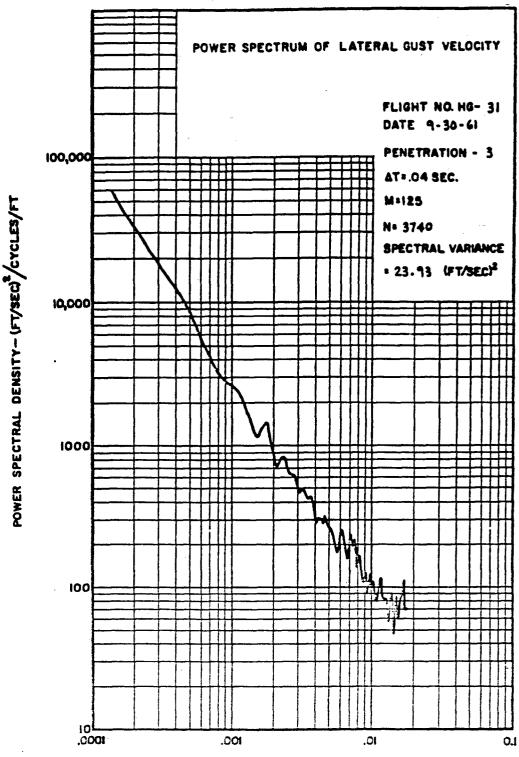


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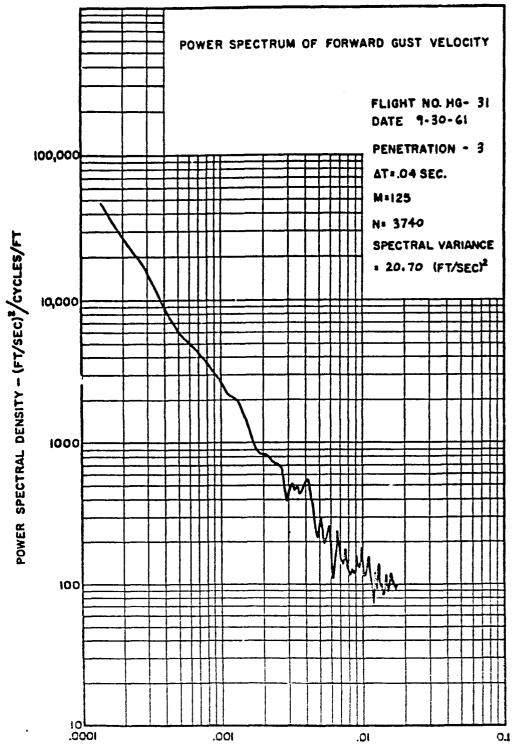
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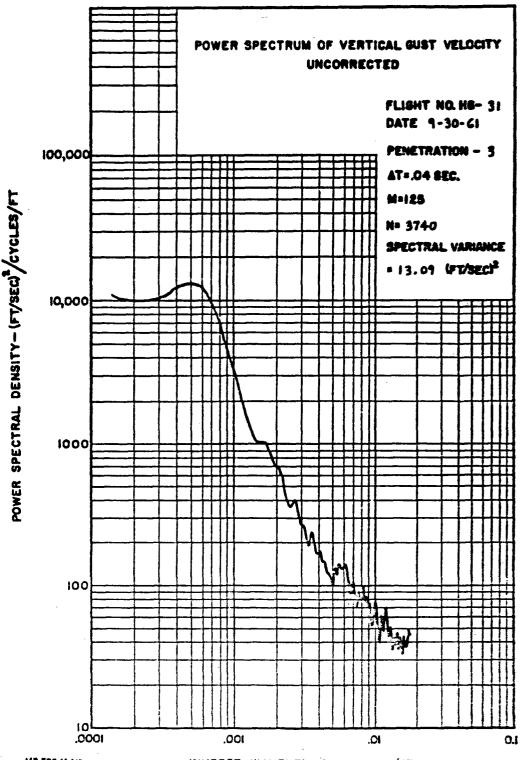
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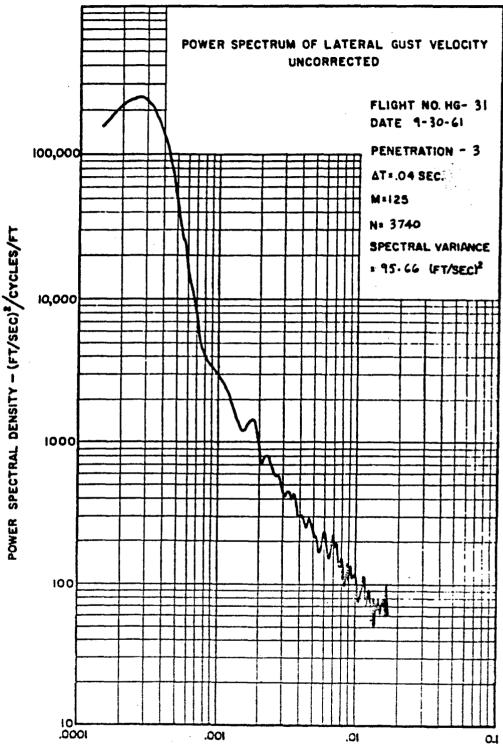
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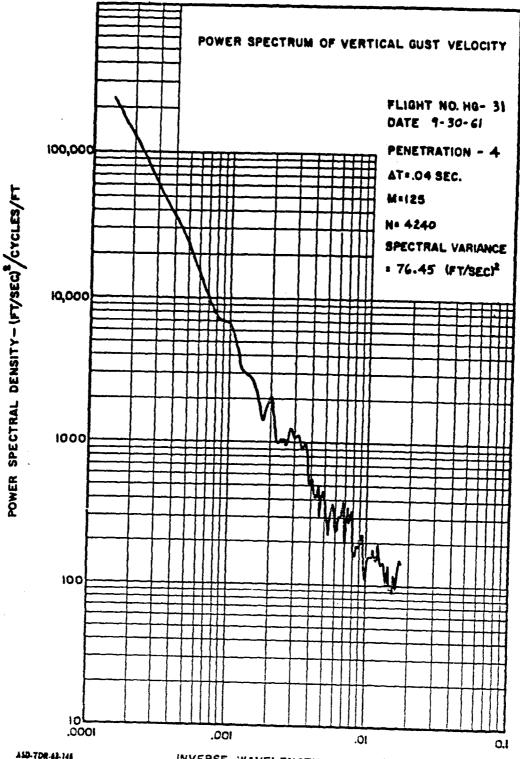
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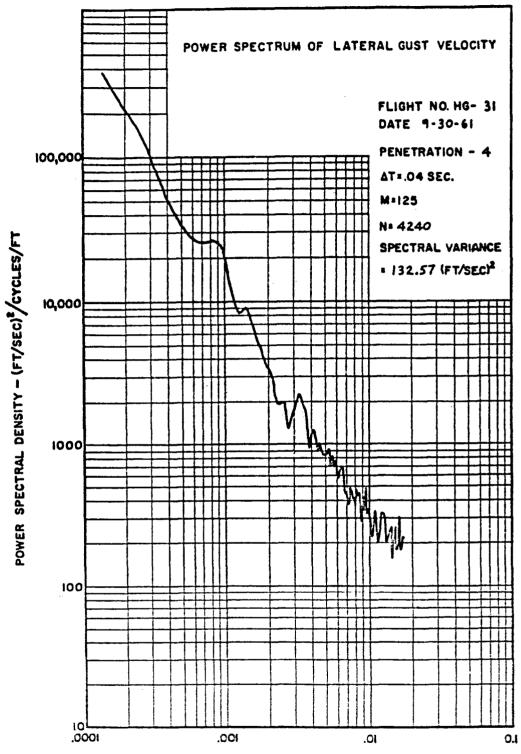


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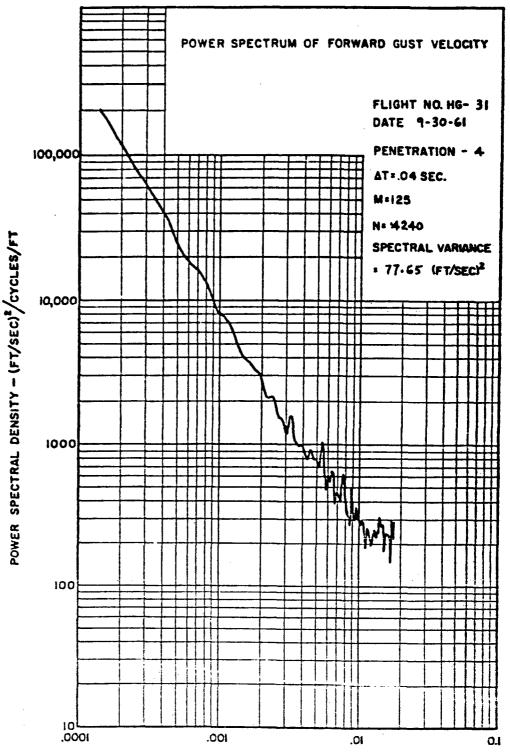


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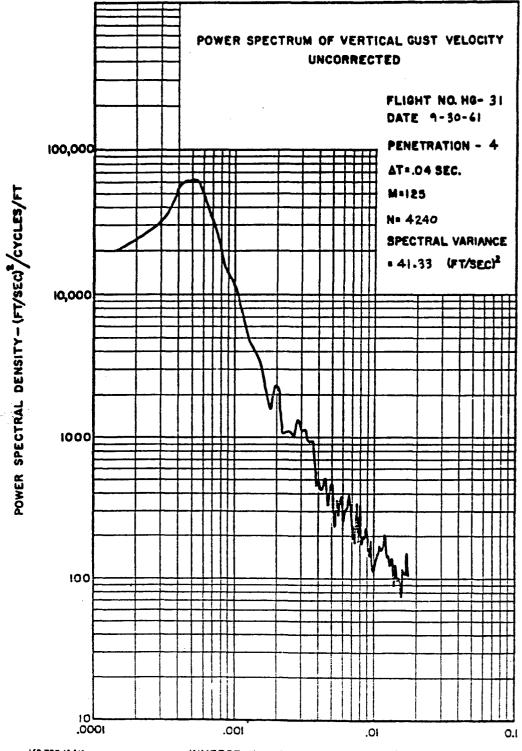
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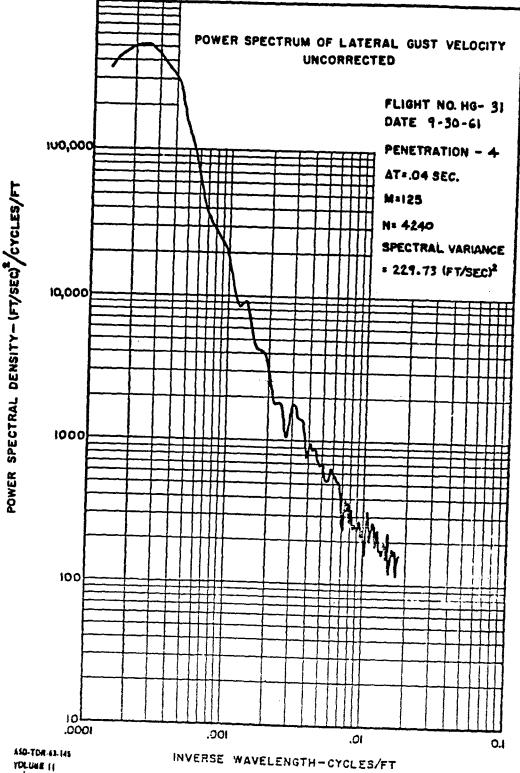
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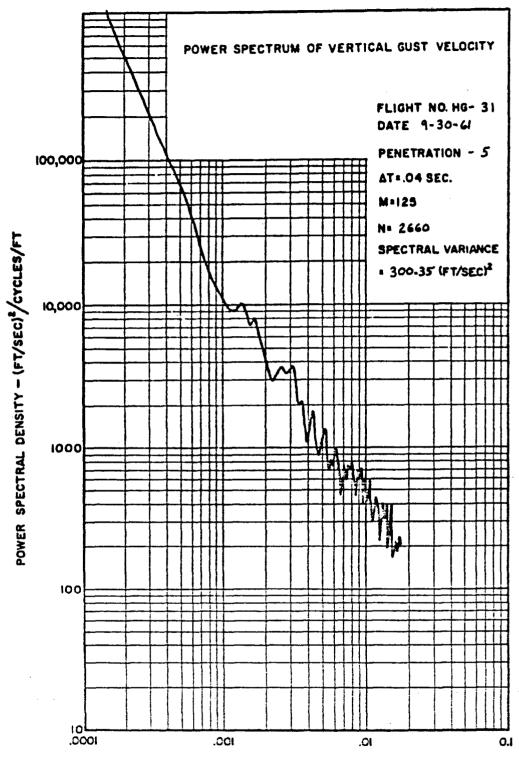


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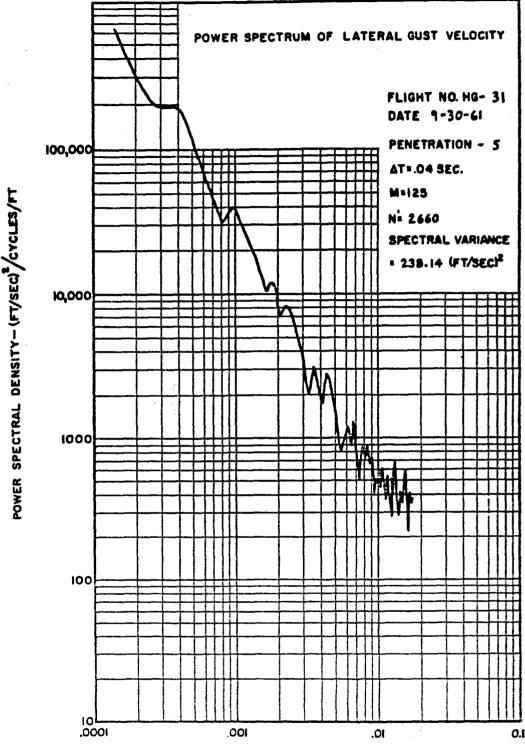


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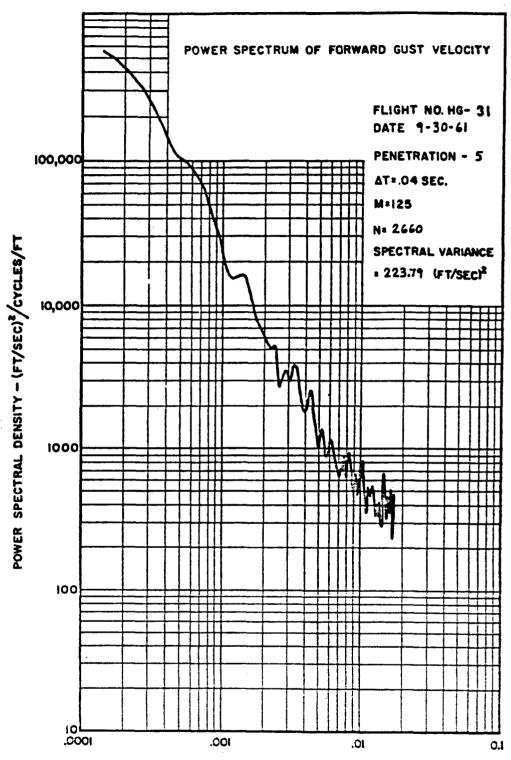
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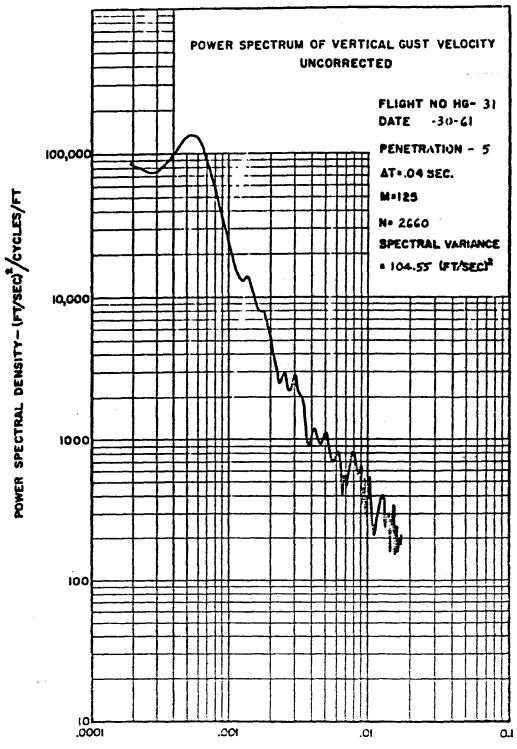
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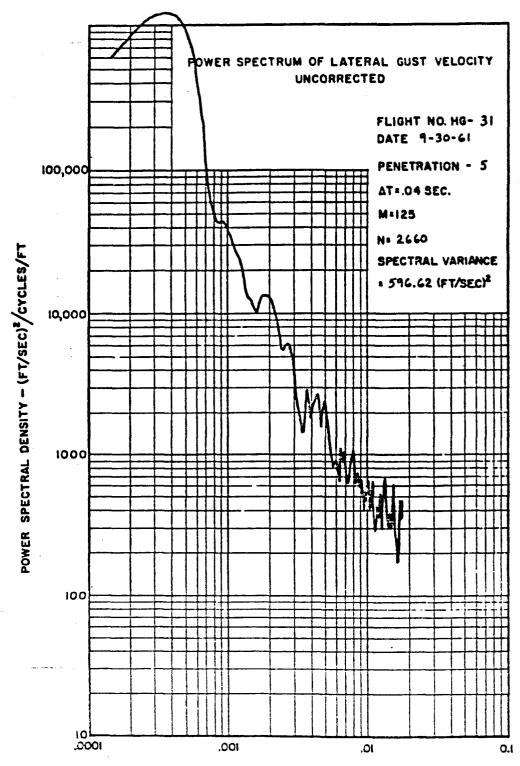
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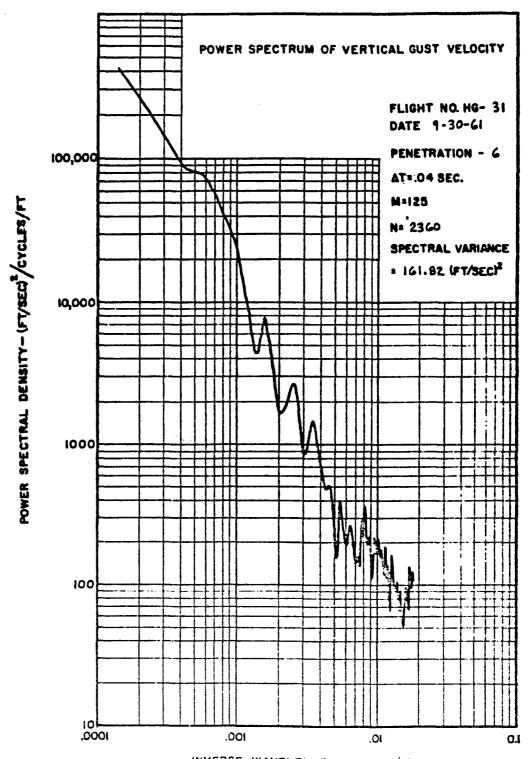
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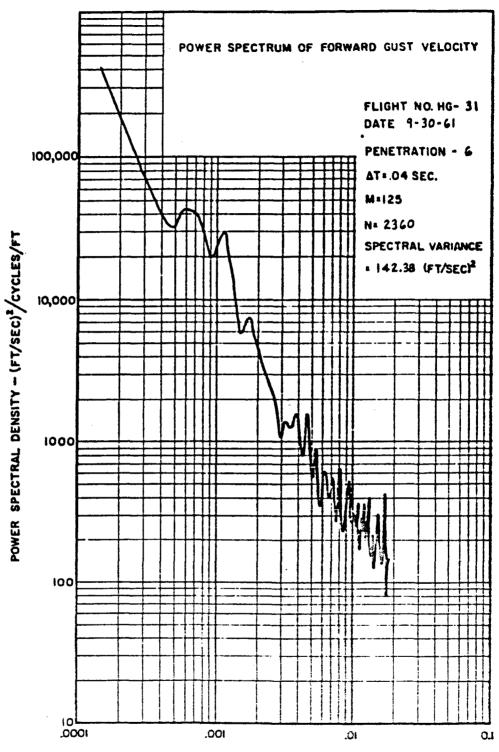
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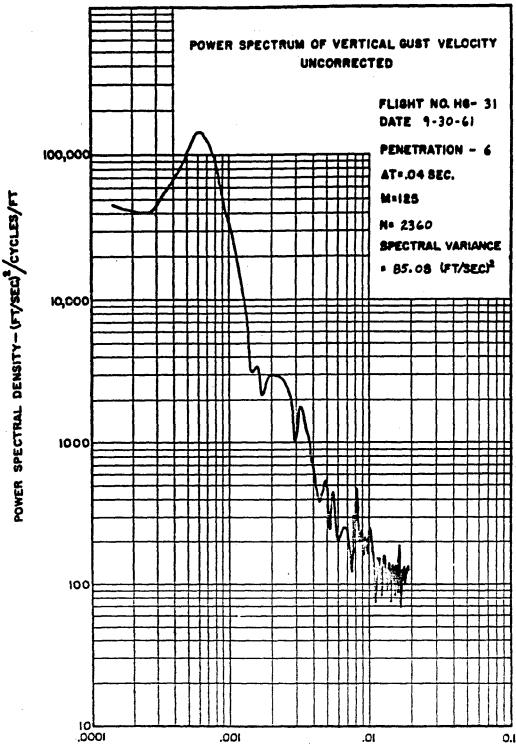
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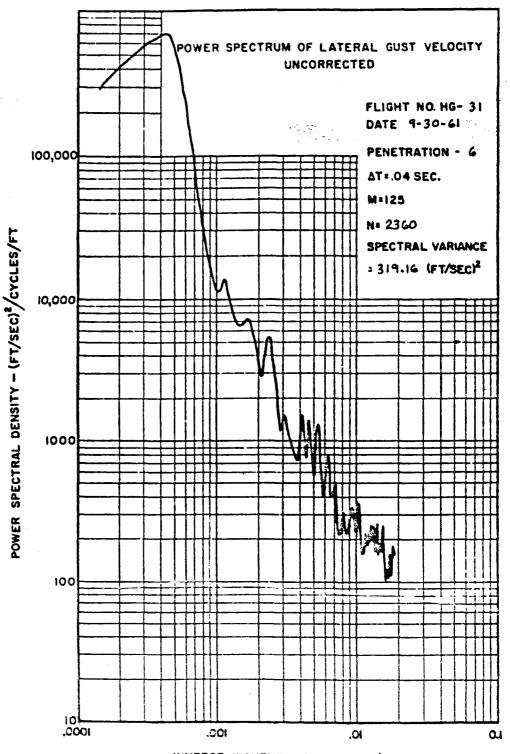
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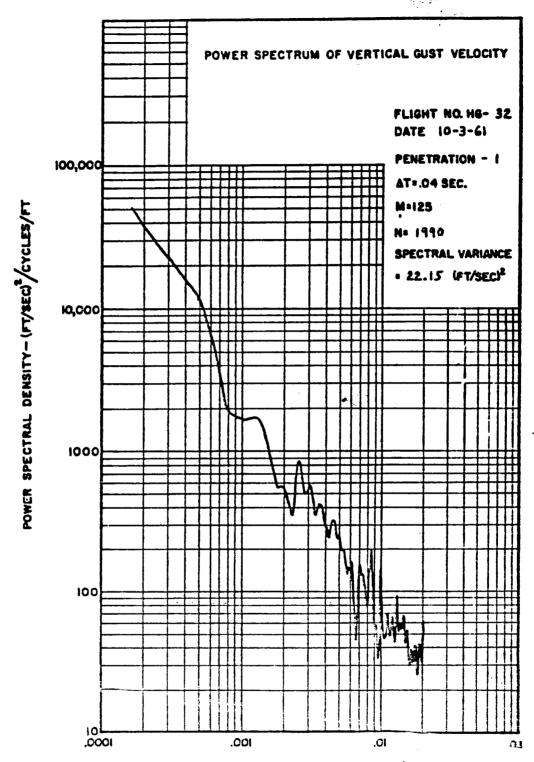
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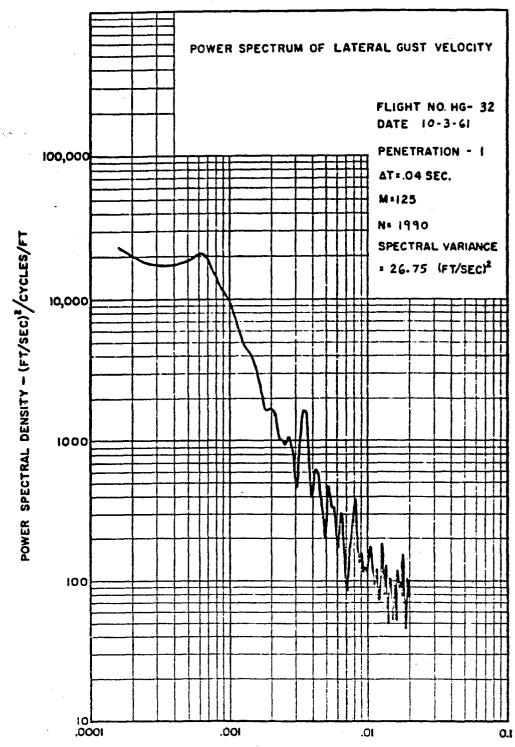
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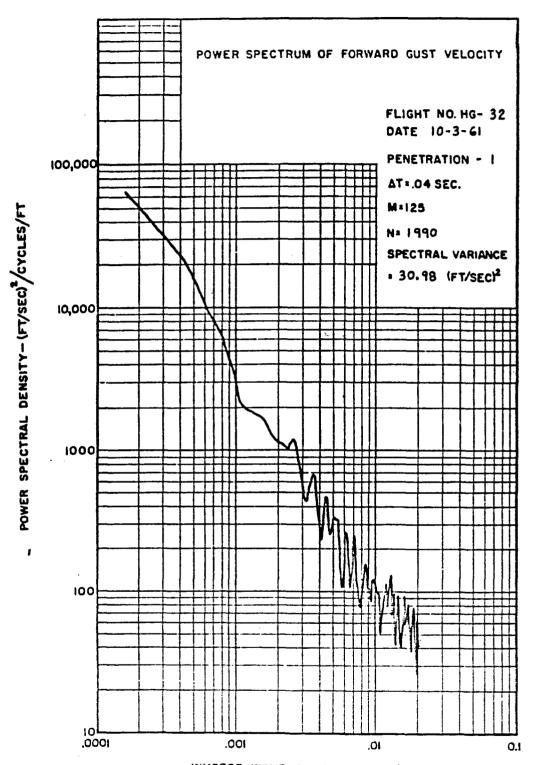
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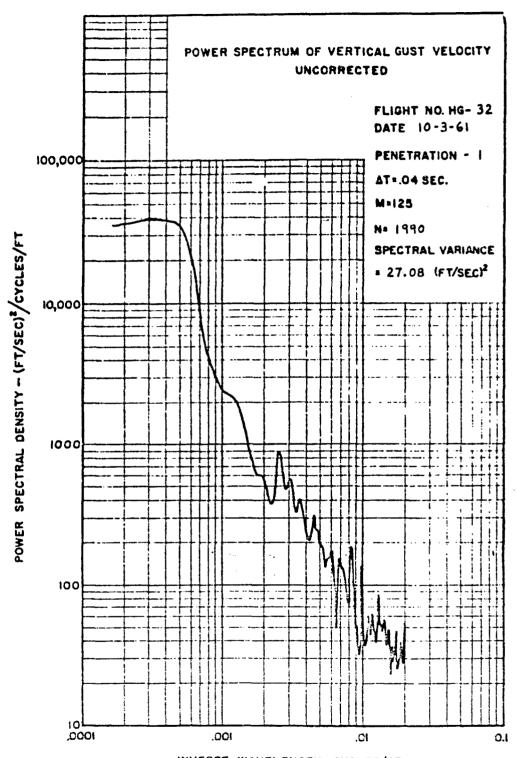
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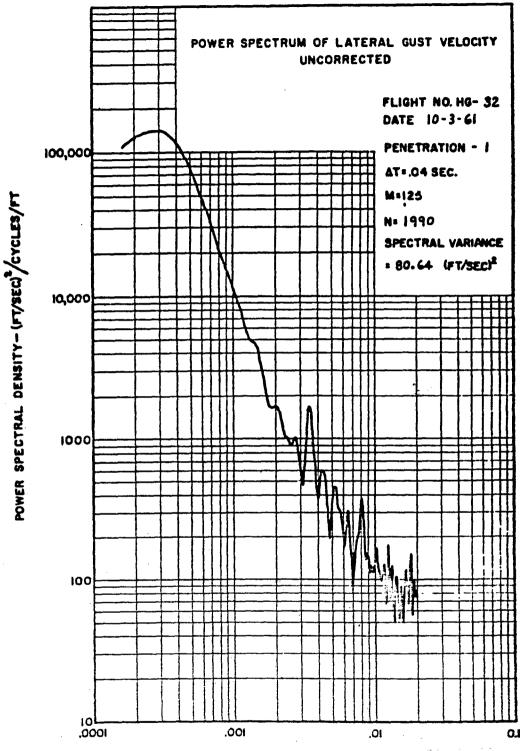
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INVERSE WAVELENGTH-CYCLES/FT



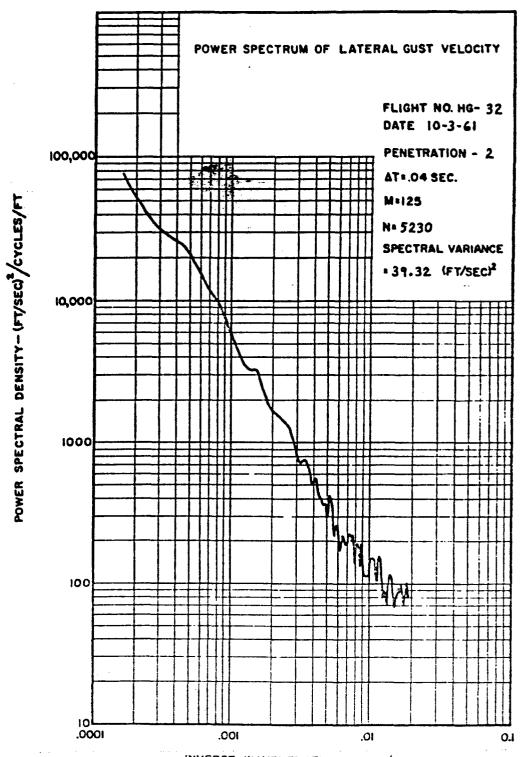
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INVERSE WAVELENGTH-CYCLES/FT



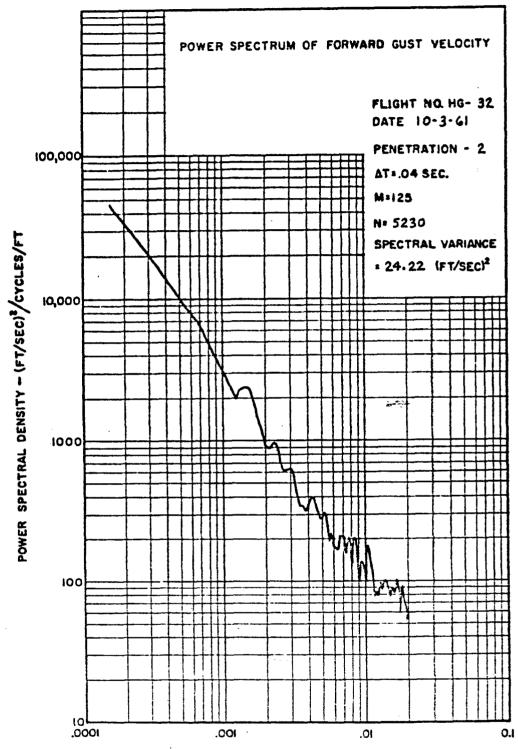
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INVERSE WAVELFNGTH-CYCLES/FT



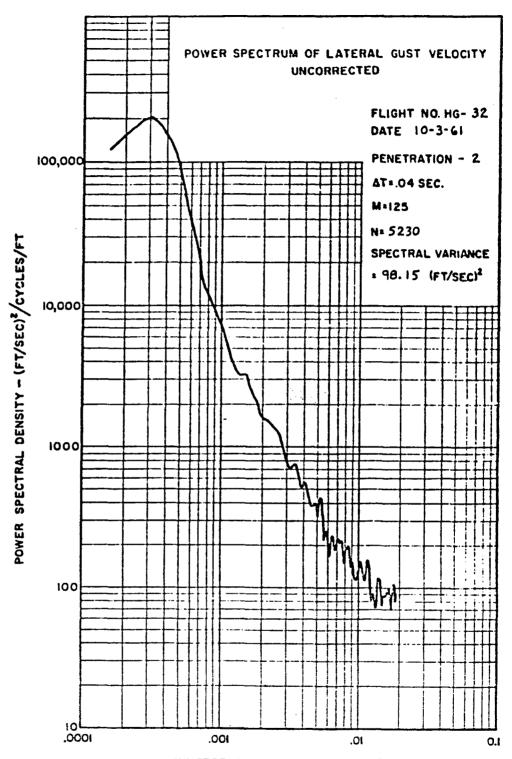
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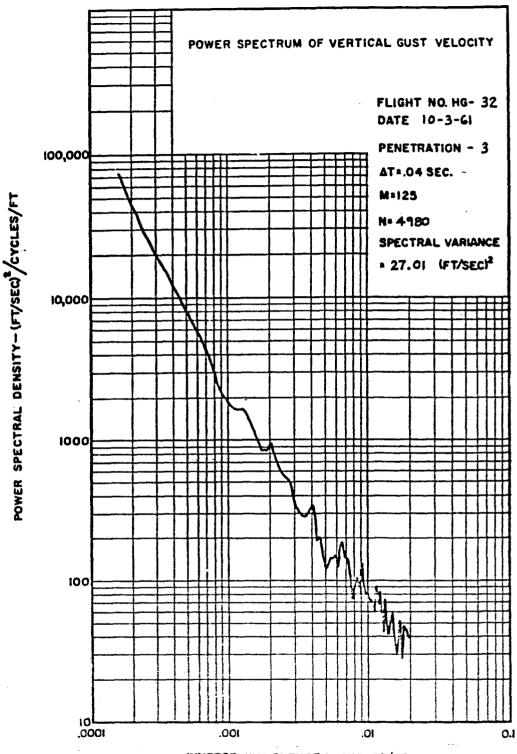
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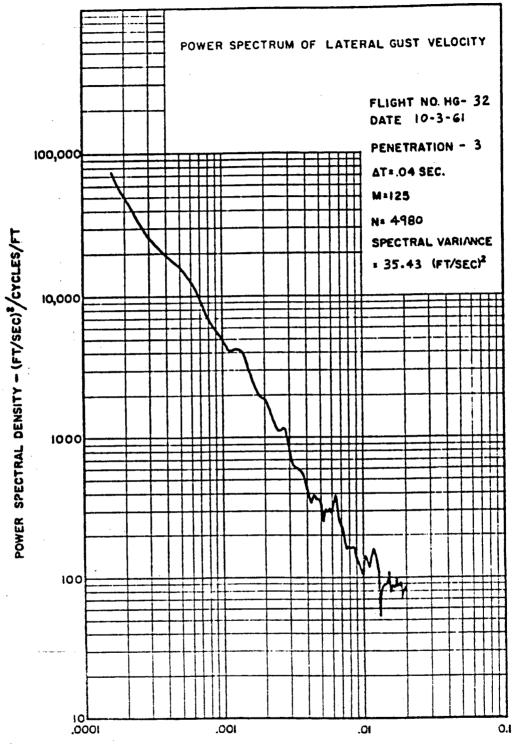
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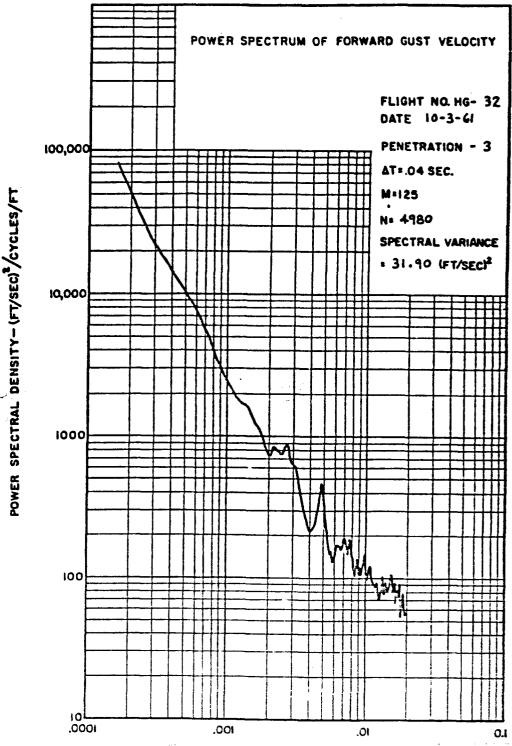
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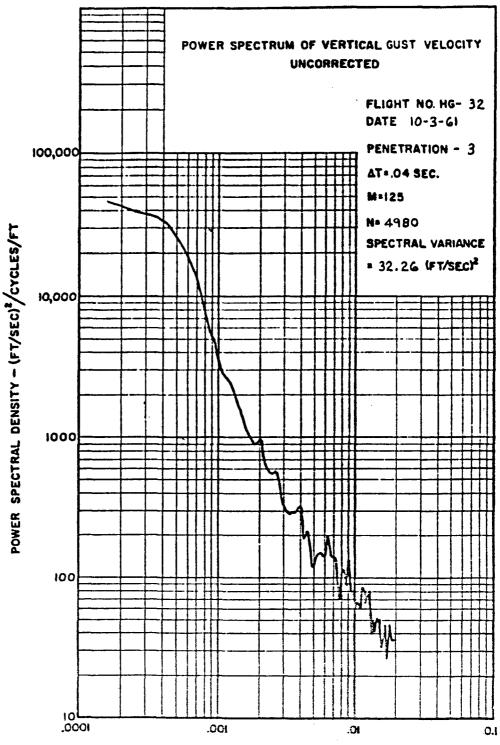
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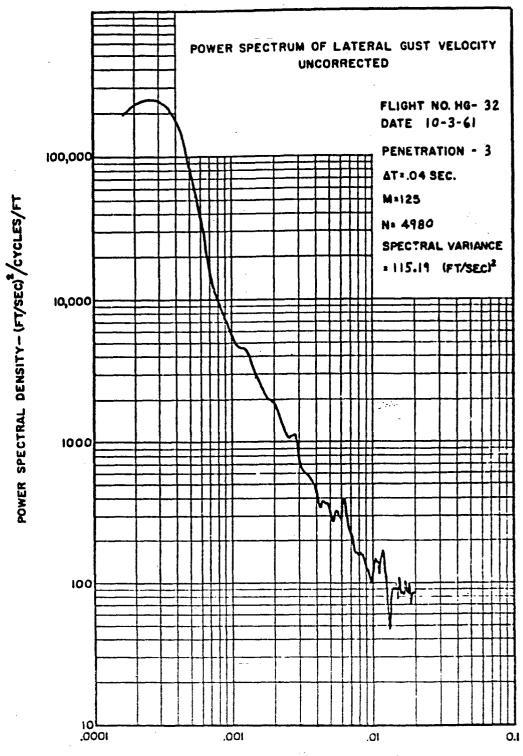
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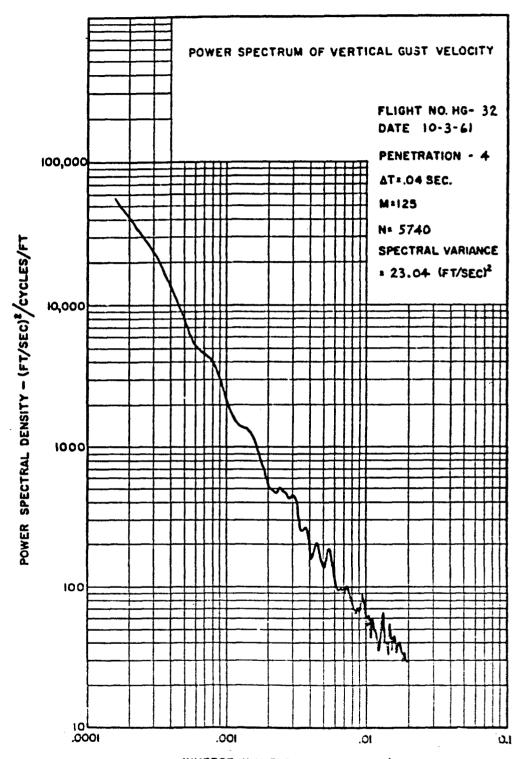


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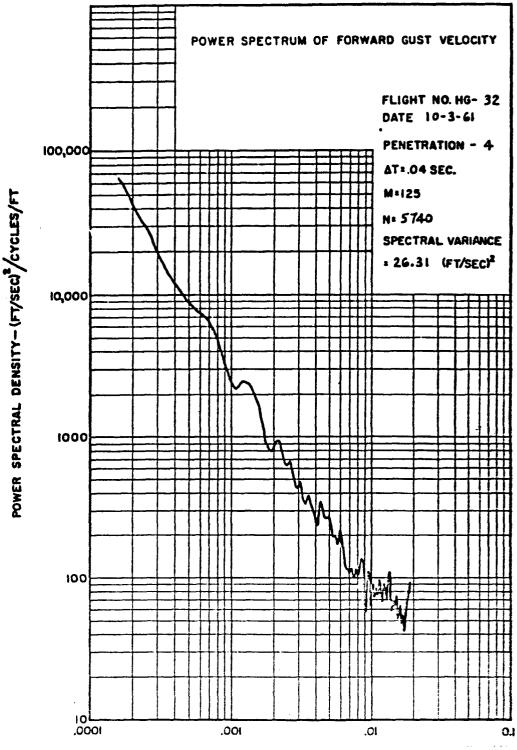


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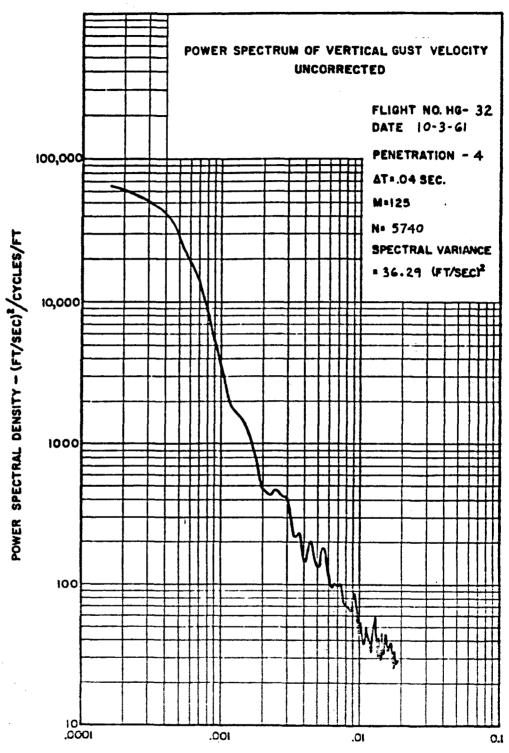
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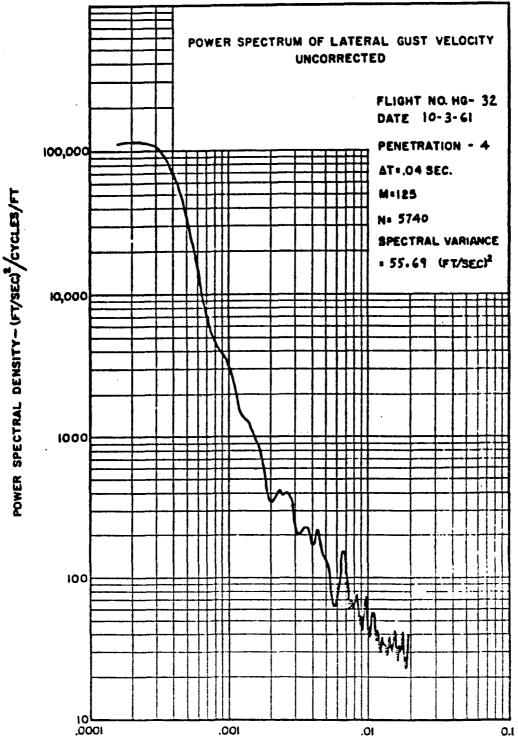
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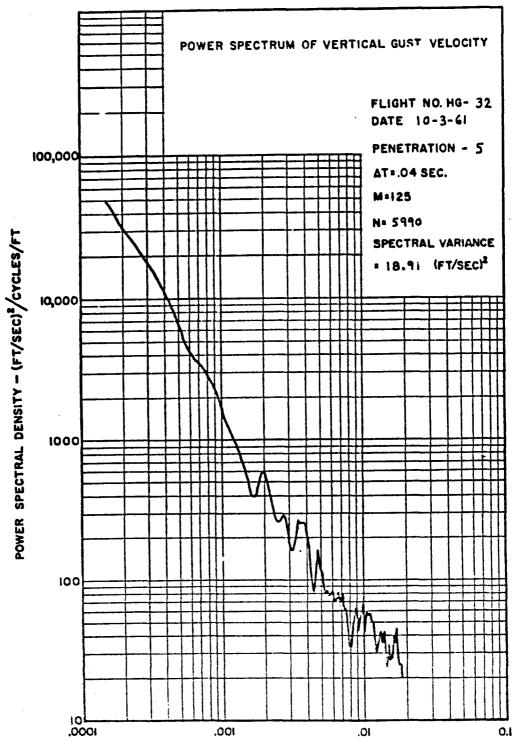
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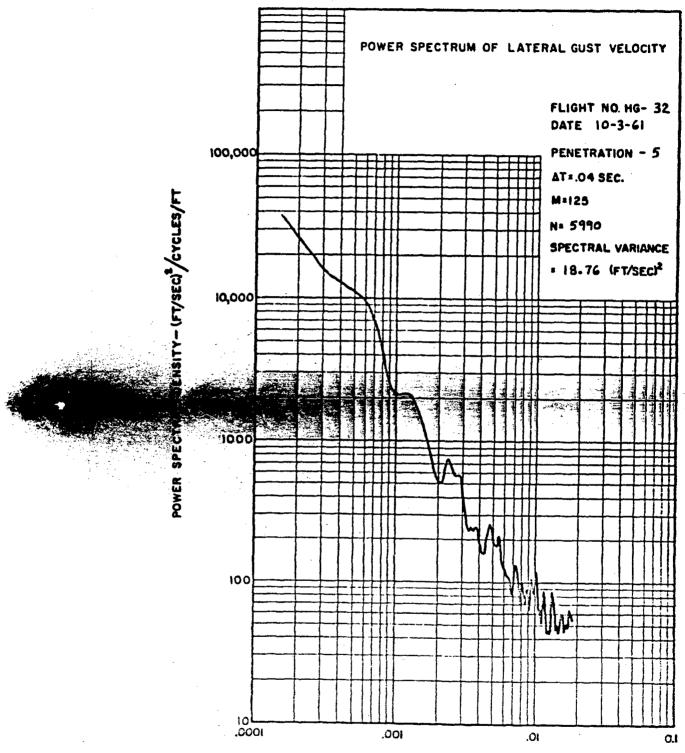
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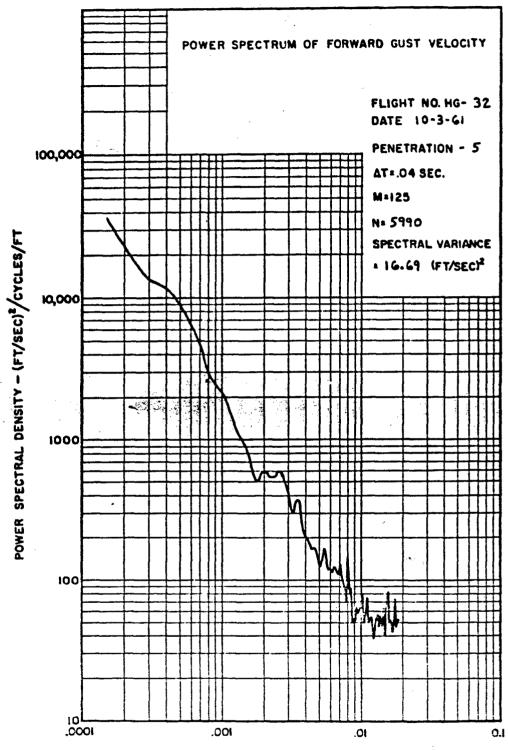
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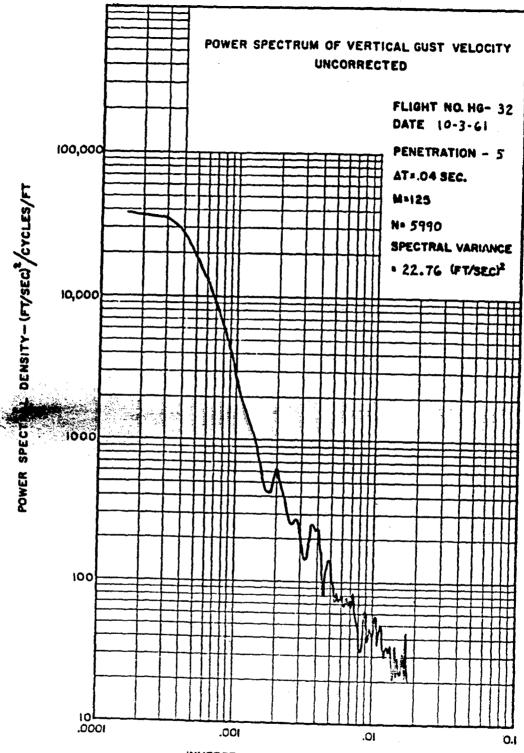


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INVERSE WAVELENGTH-CYCLES/FT

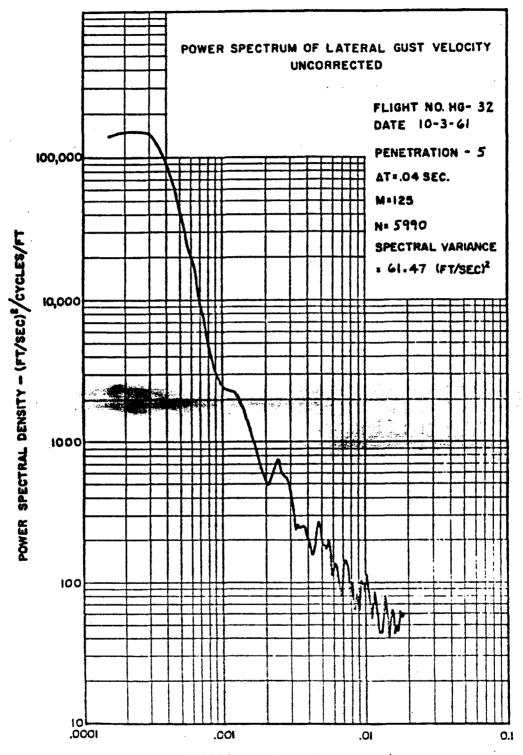


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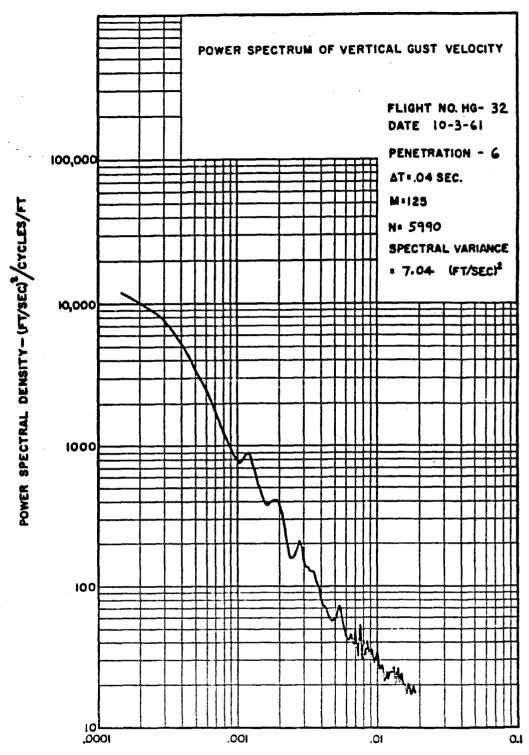
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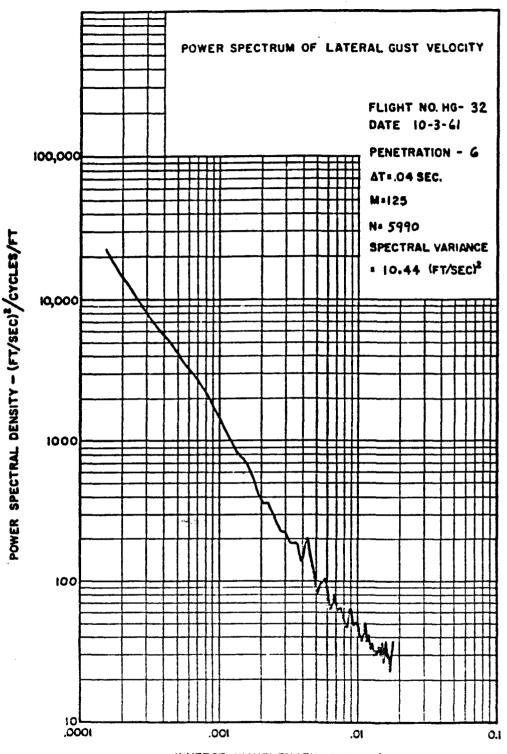
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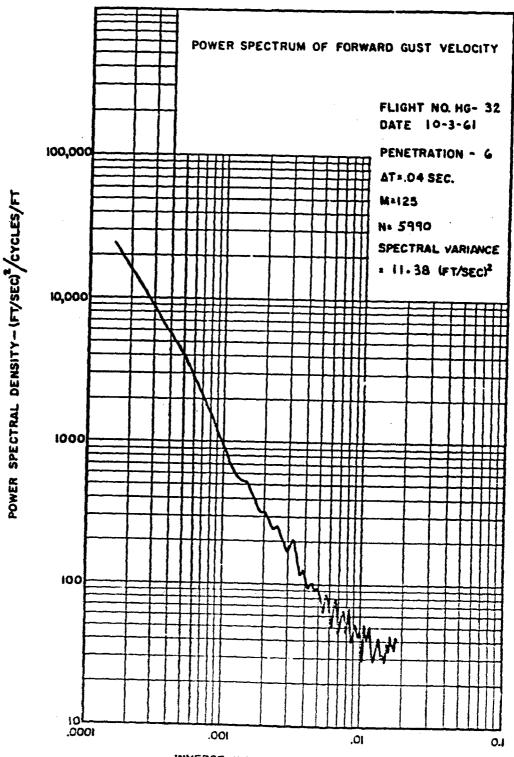


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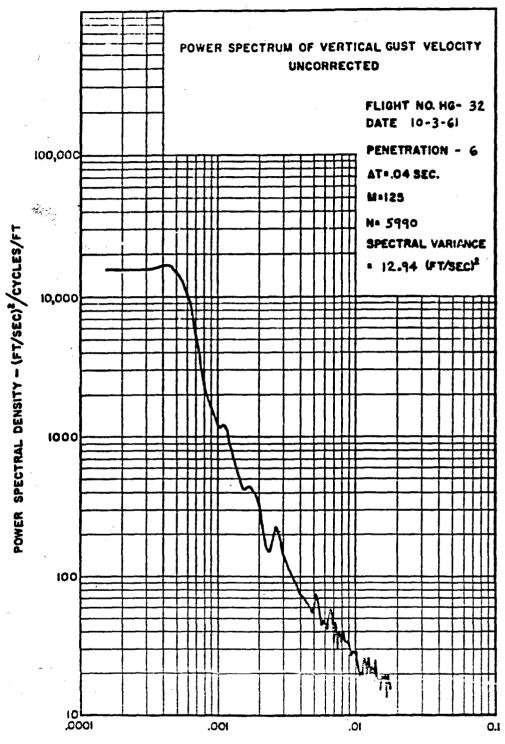
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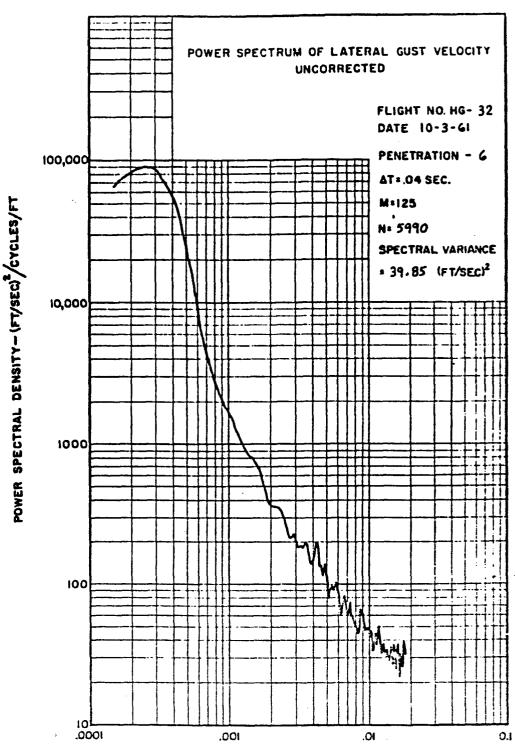
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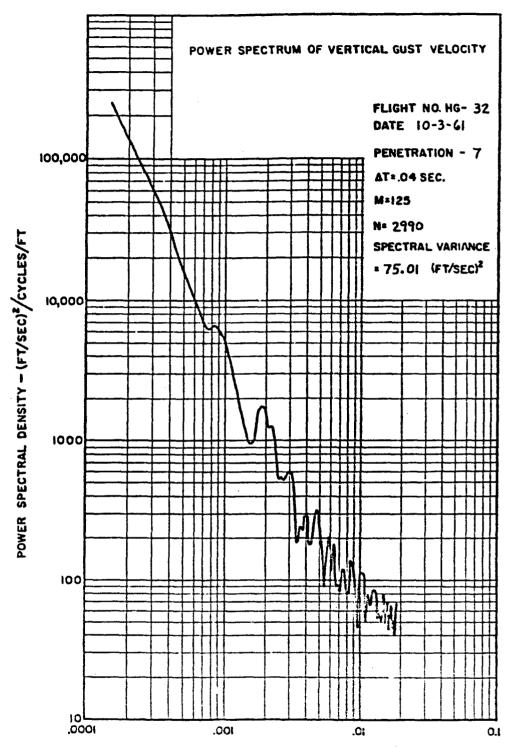


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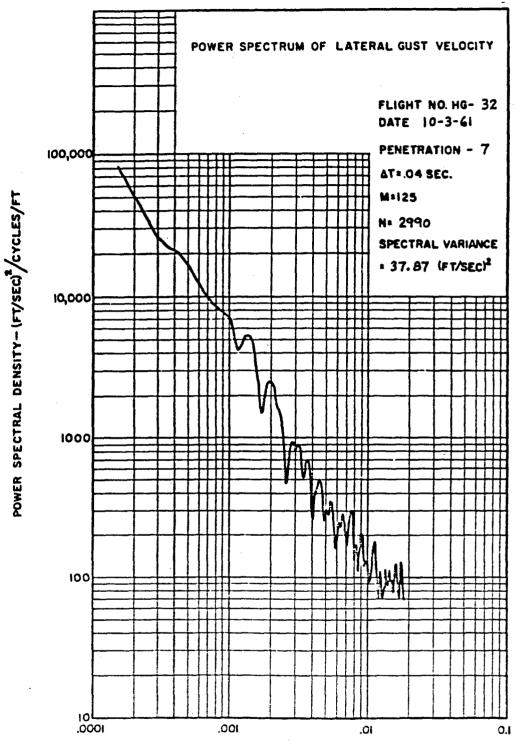
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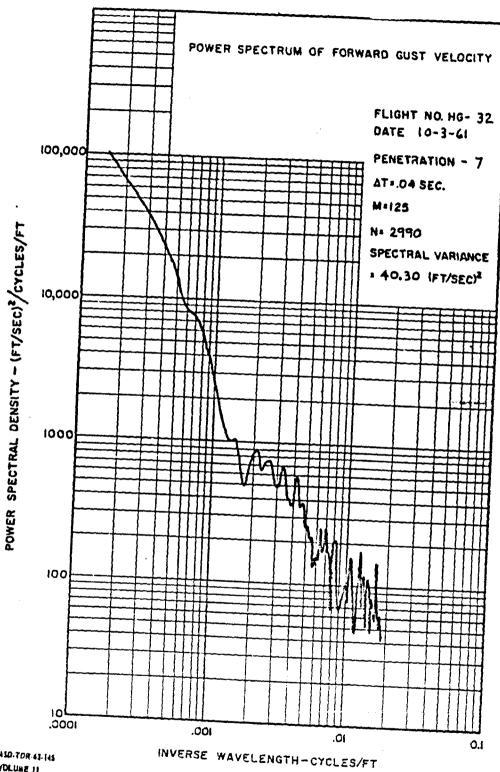
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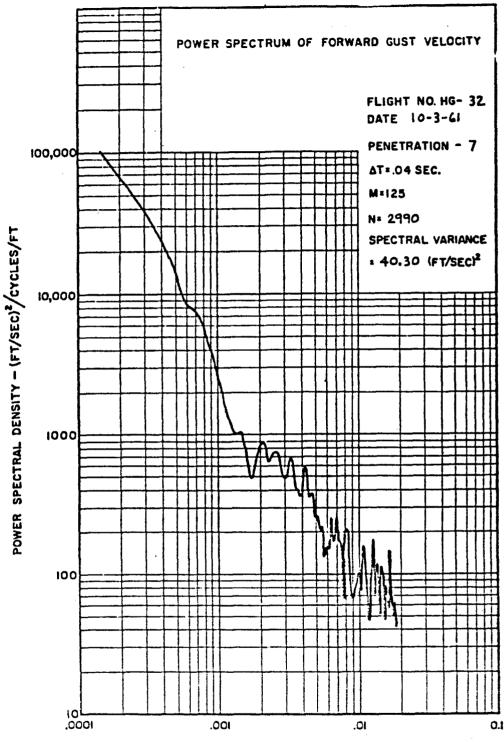


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INVERSE WAVELENGTH-CYCLES/FT

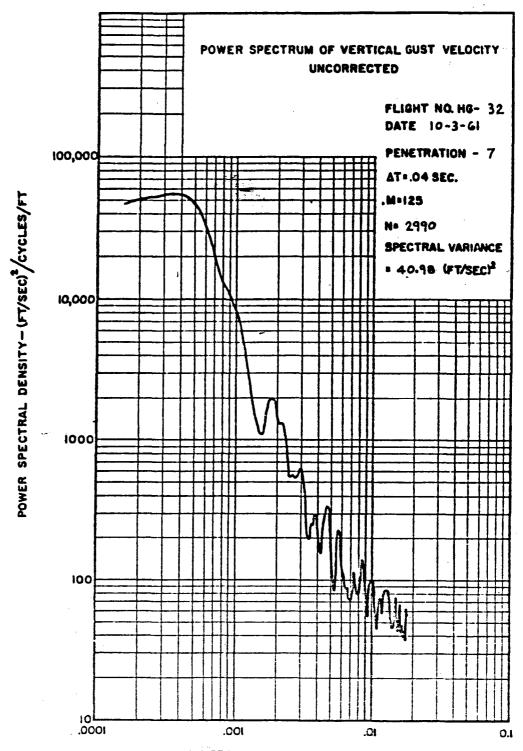


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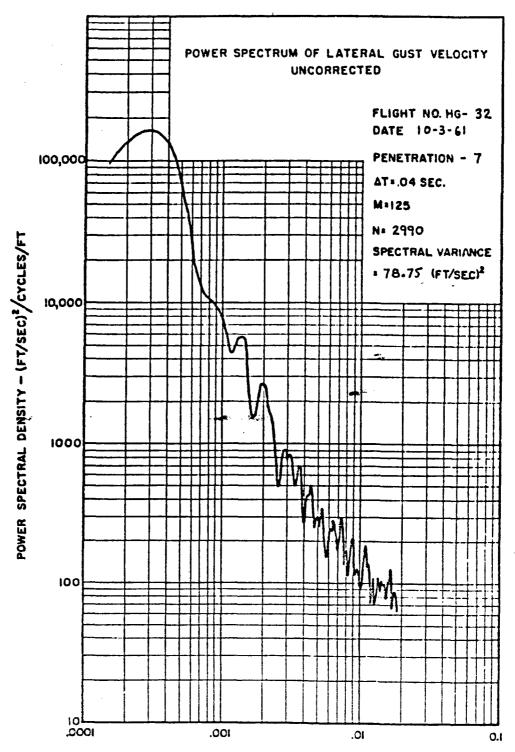
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INVERSE WAVELENGTH-CYCLES/FT



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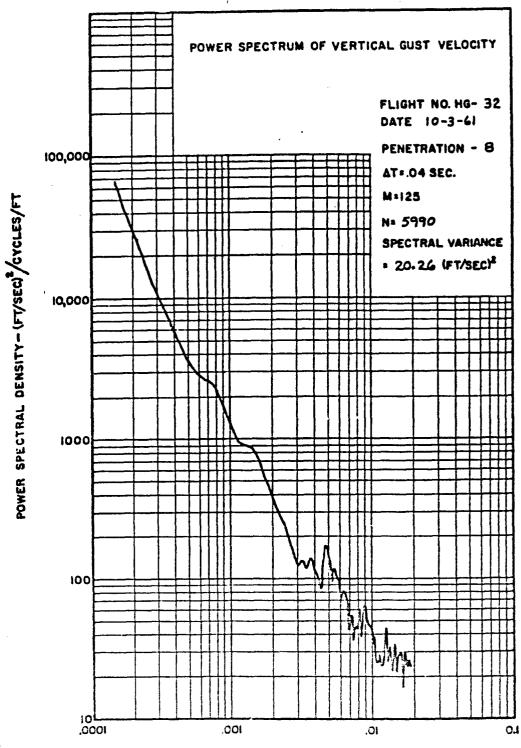
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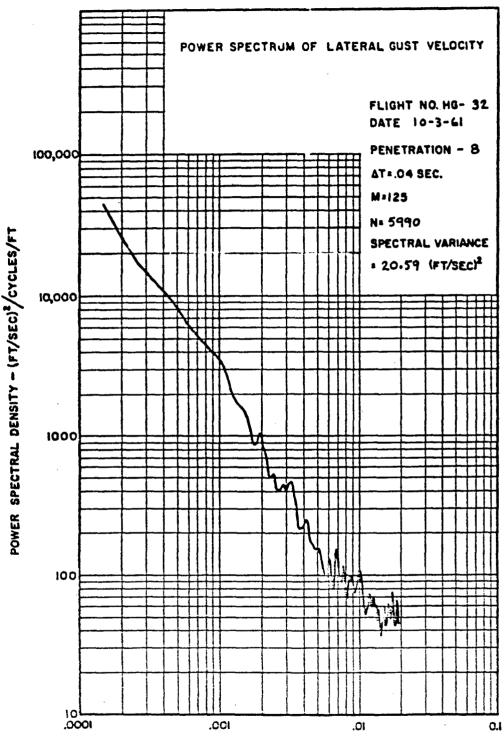
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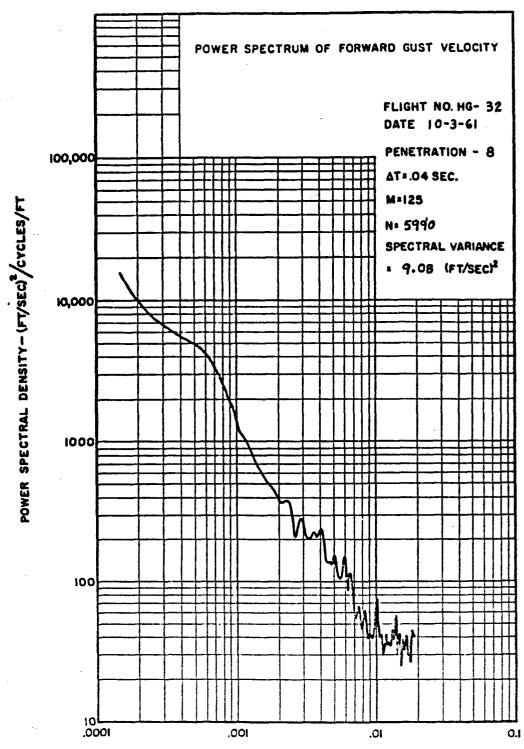
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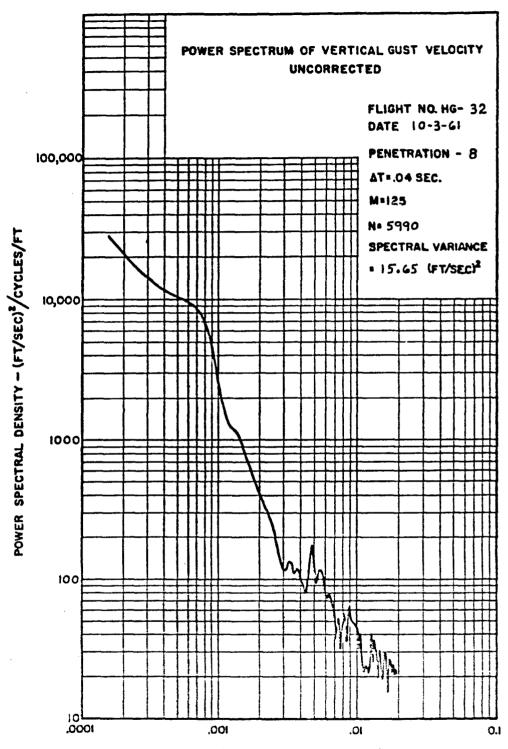
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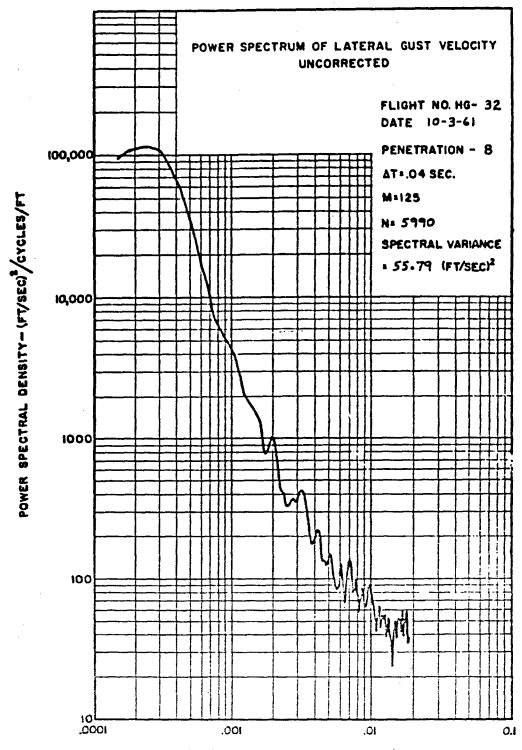
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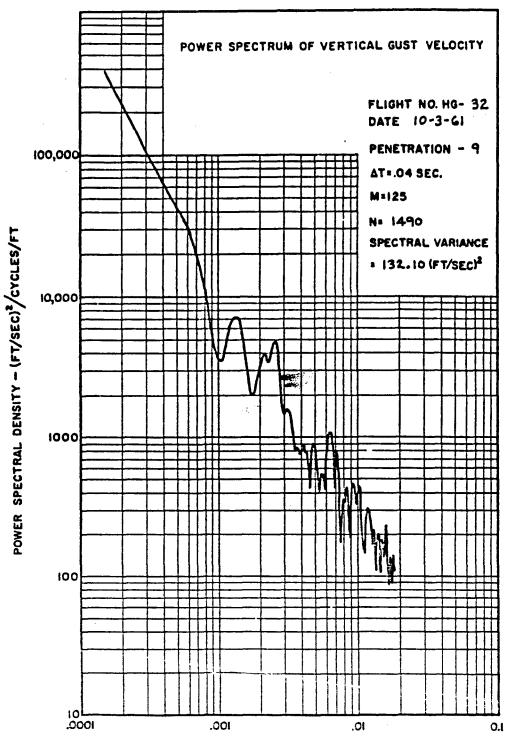
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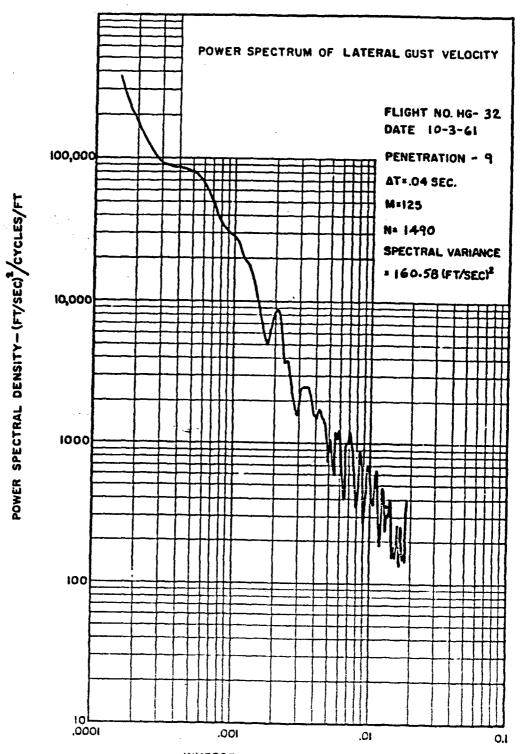
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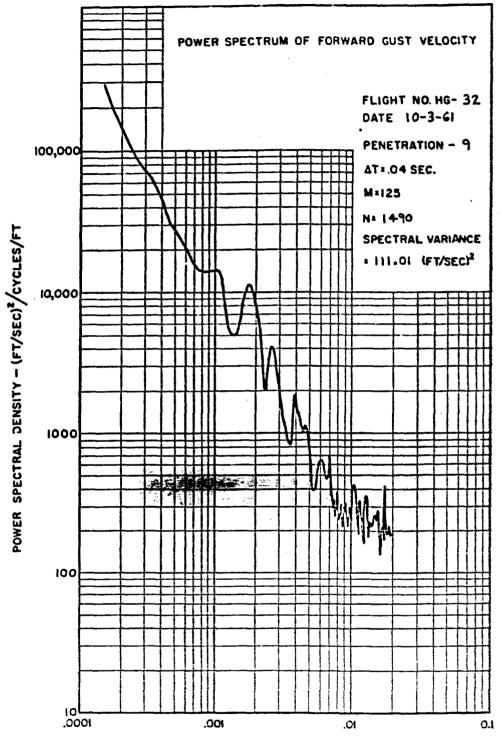
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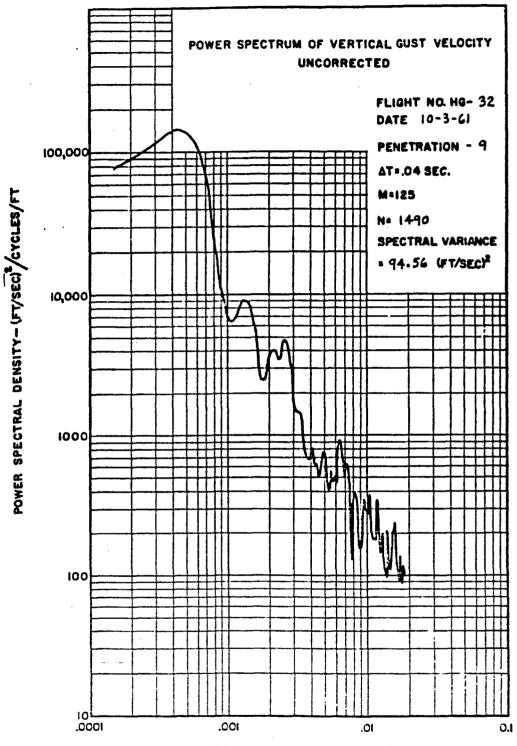
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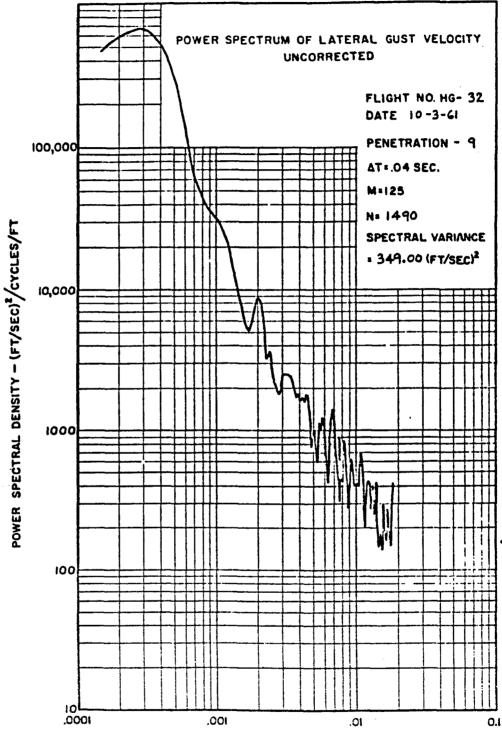
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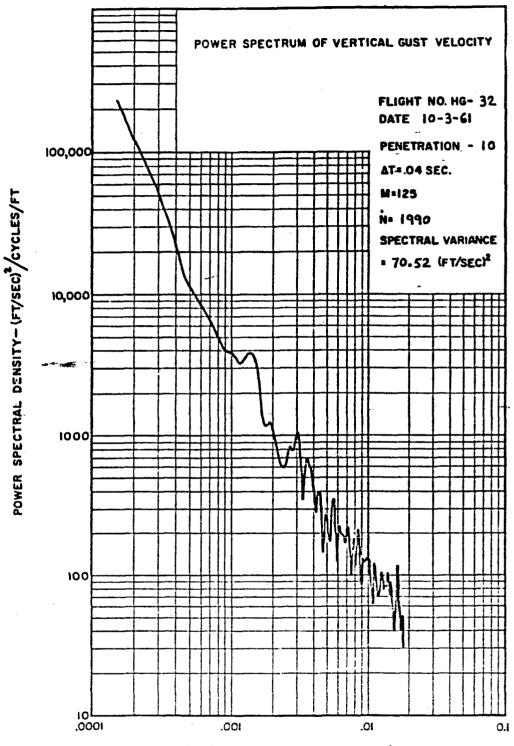


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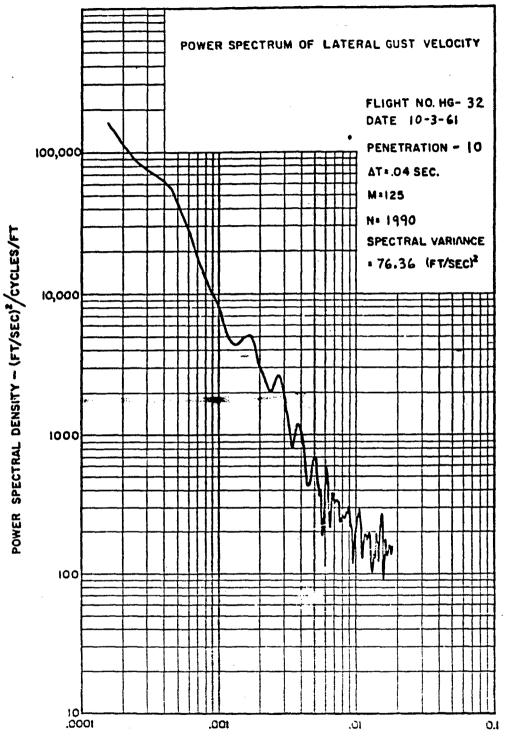


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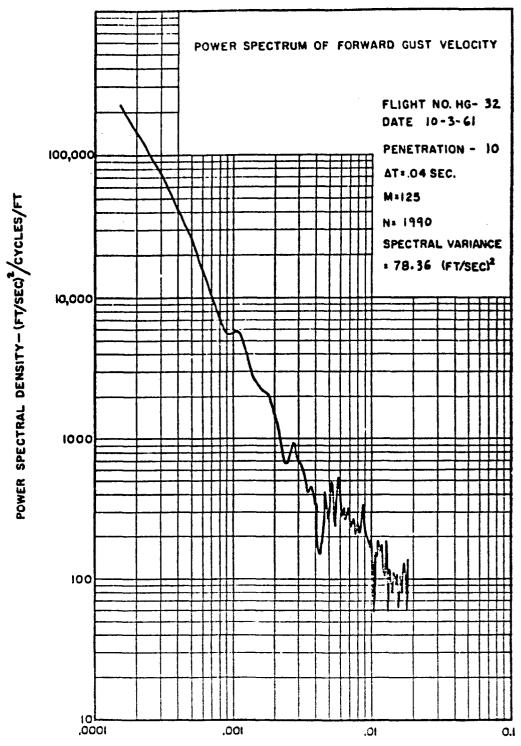


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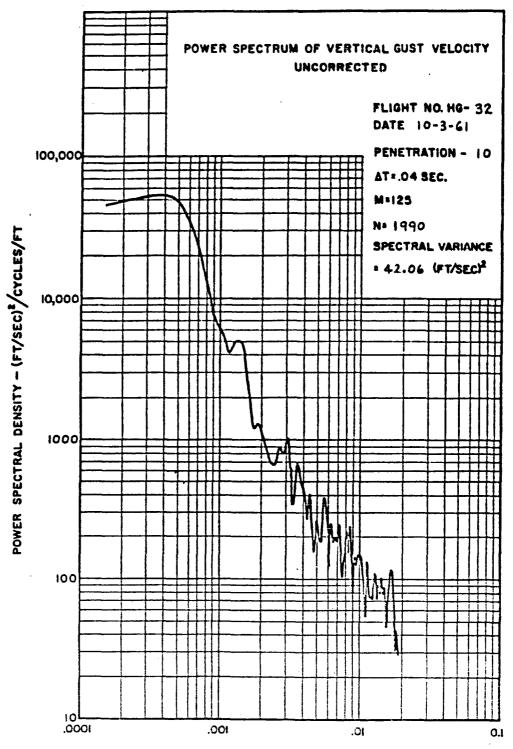


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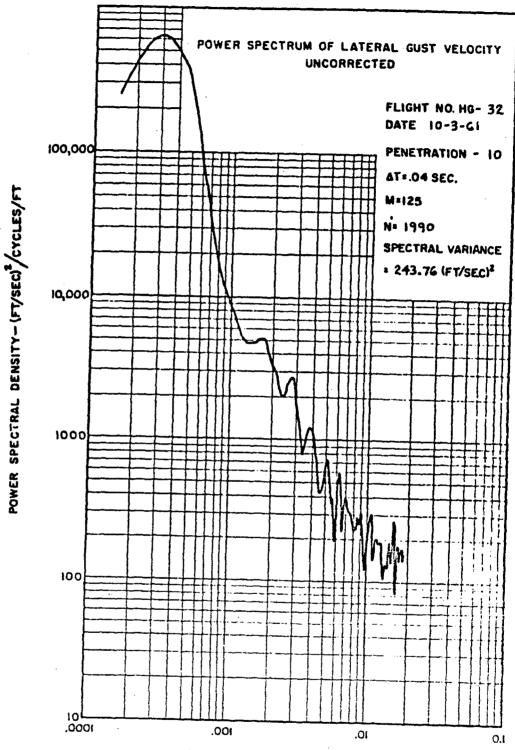
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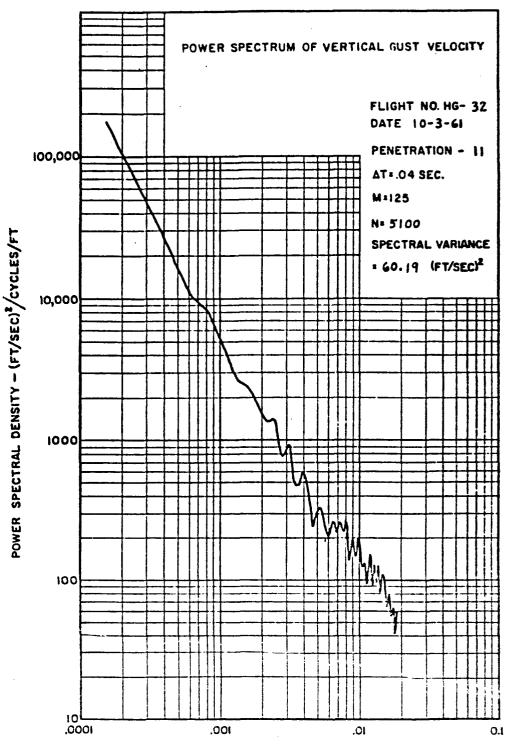
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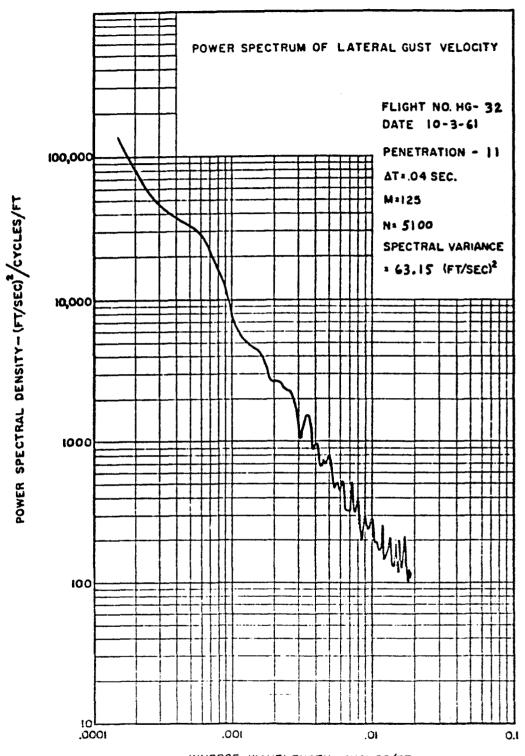
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INVERSE WAVELENGTH-CYCLES/FT



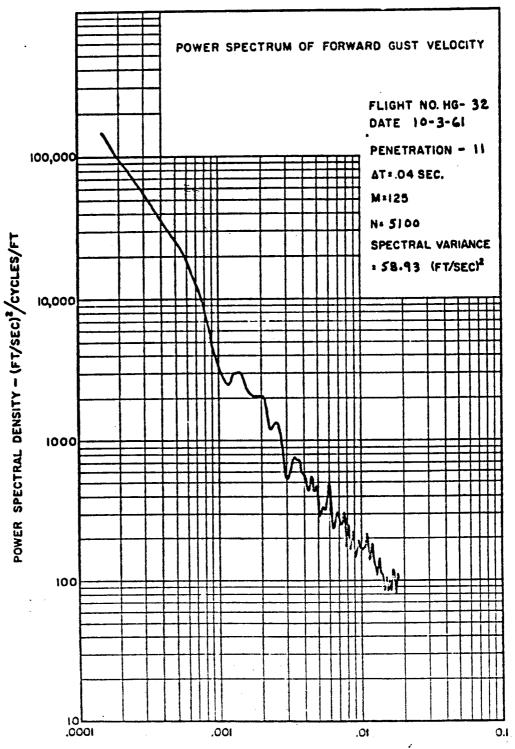
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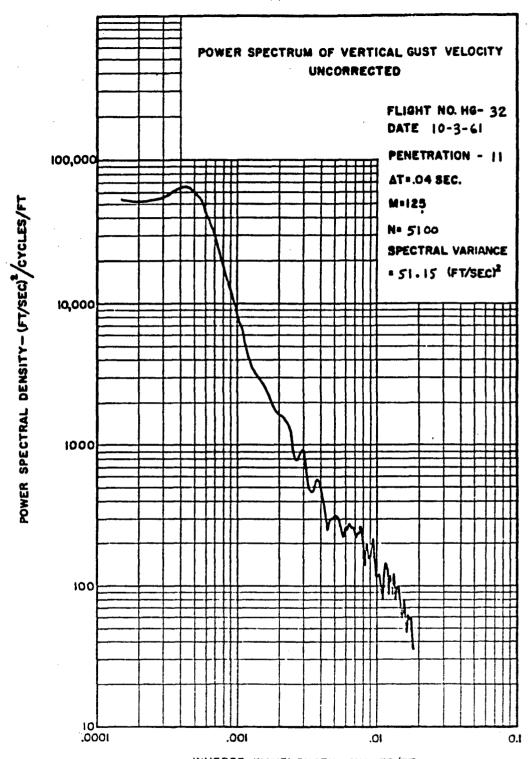
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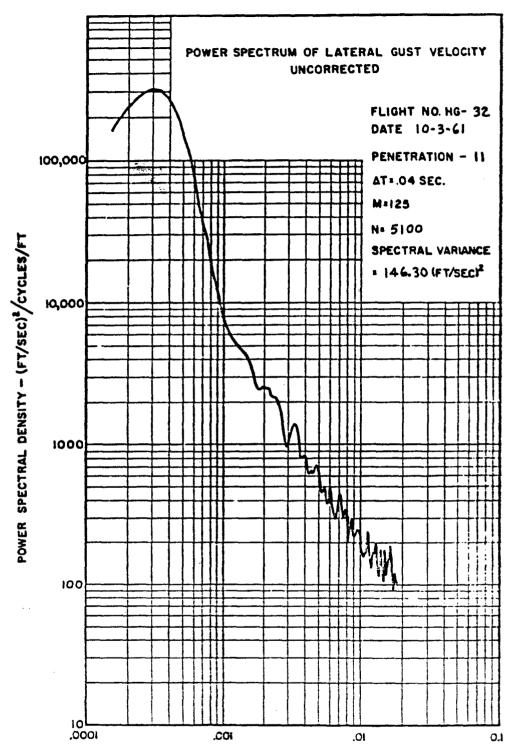
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ASO-TOR-43-145 YDLUME !!



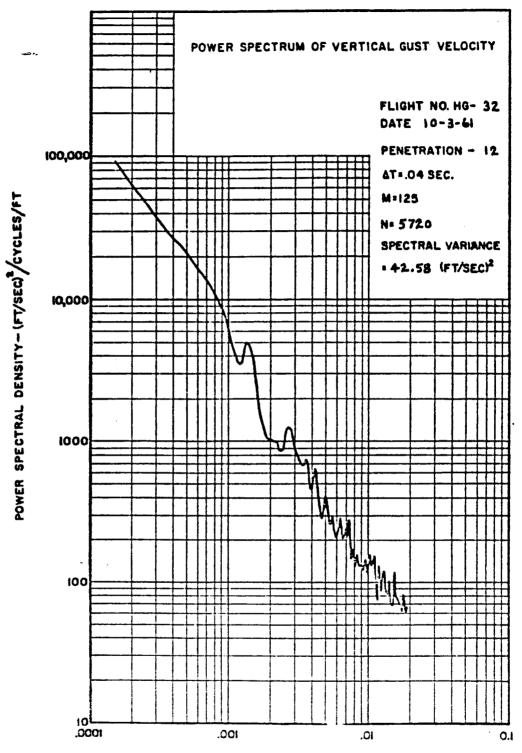
ASO-TOR-43-145 YOLUME 11 INVERSE WAVELENGTH-CYCLES/FT

建筑的是我的是我们是我是不会的就是我们是一个



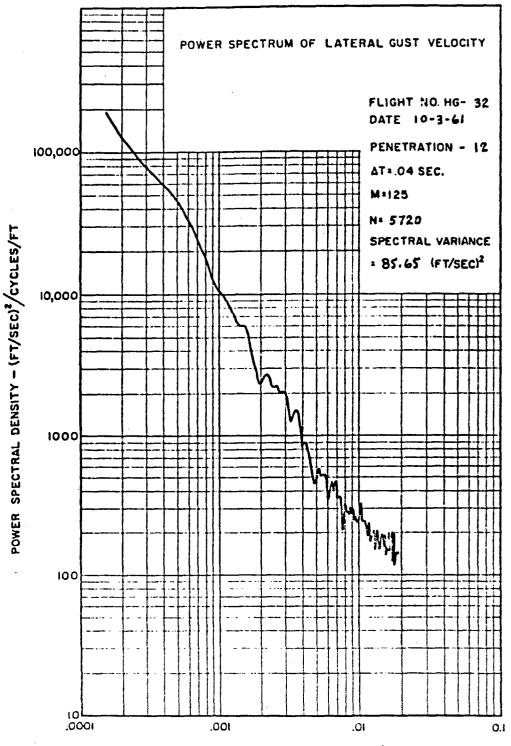
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INVERSE WAVELENGTH-CYCLES/FT



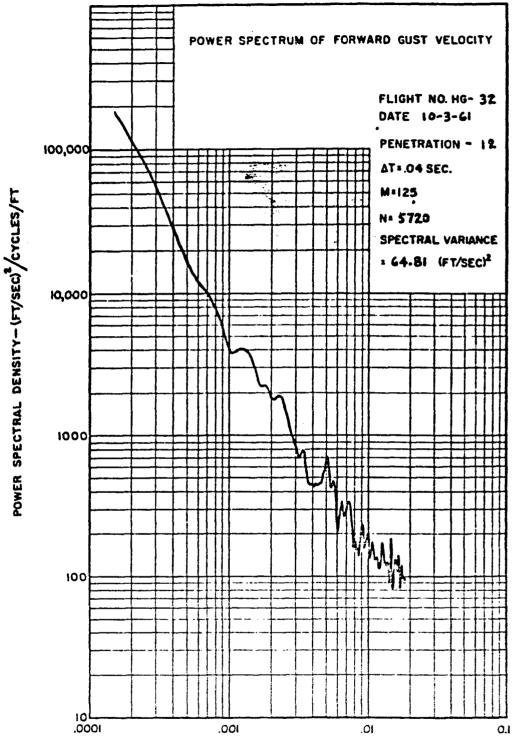
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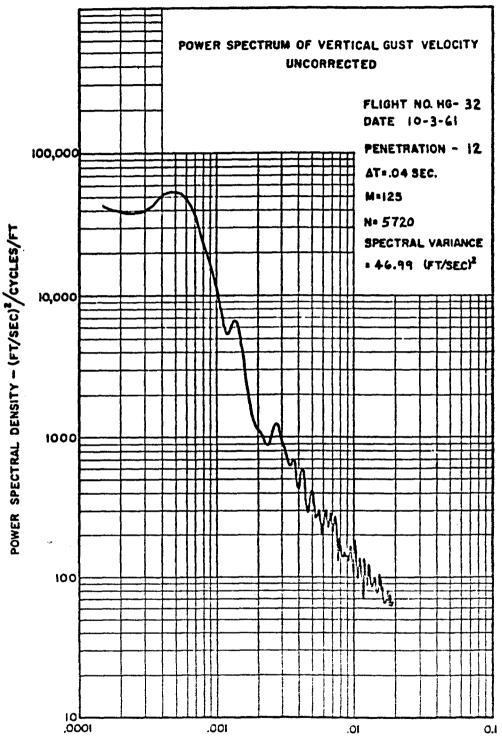
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INVERSE WAVELENGTH-CYCLES/FT



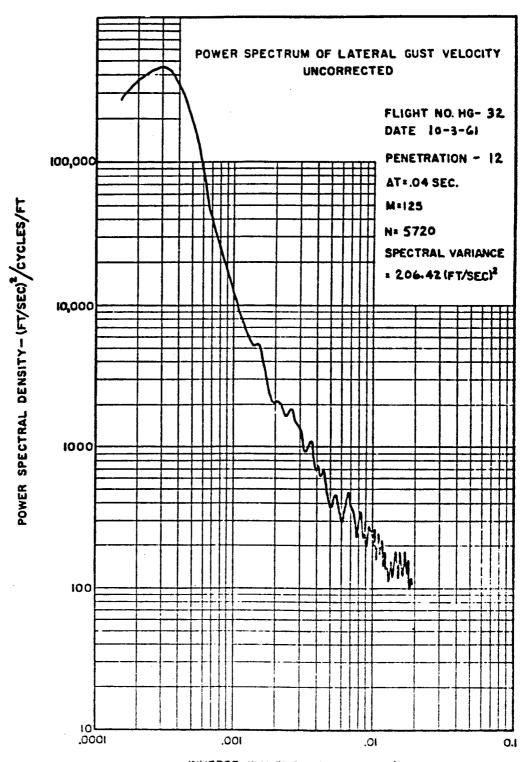
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INVERSE WAVELENGTH-CYCLES/FT



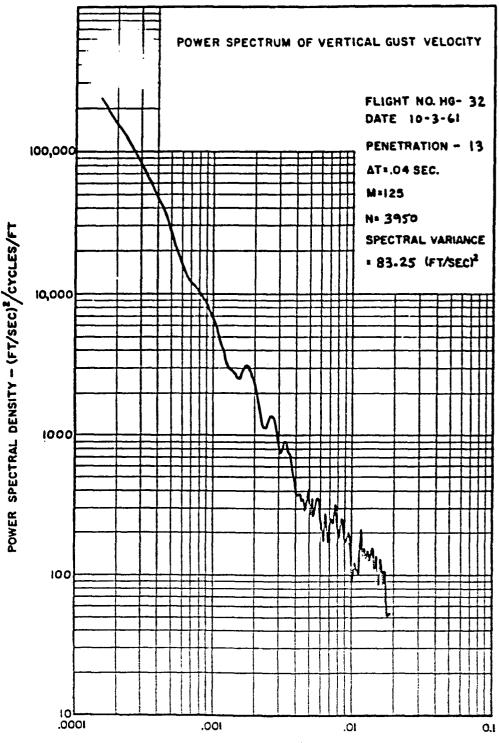
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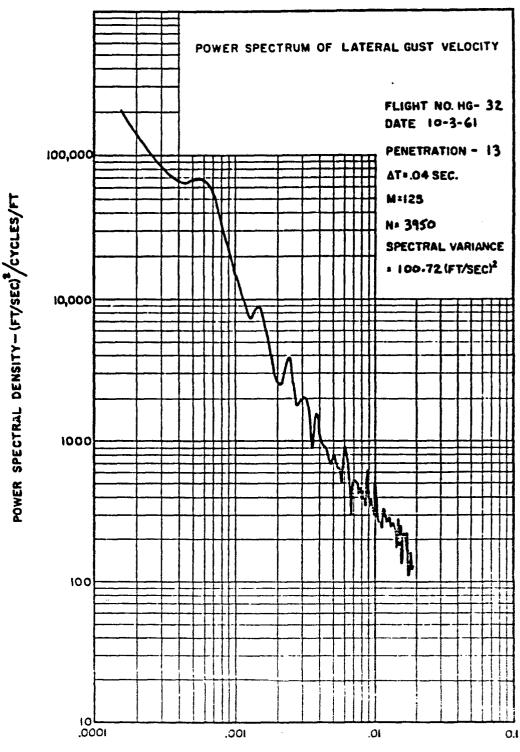
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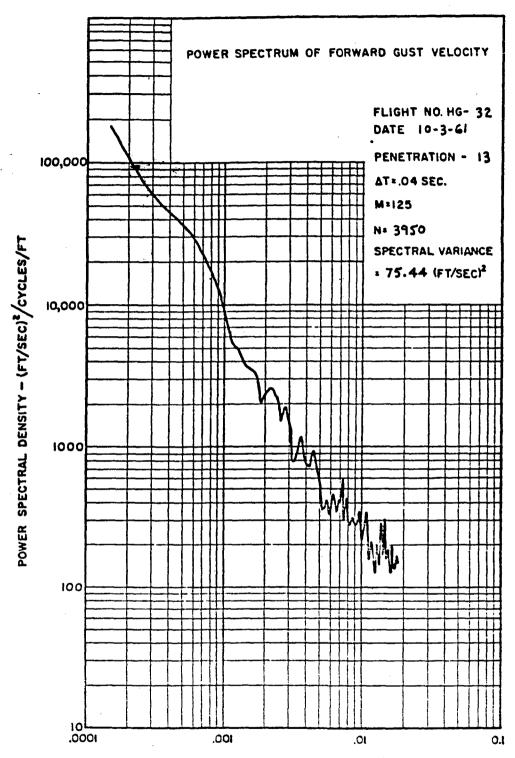
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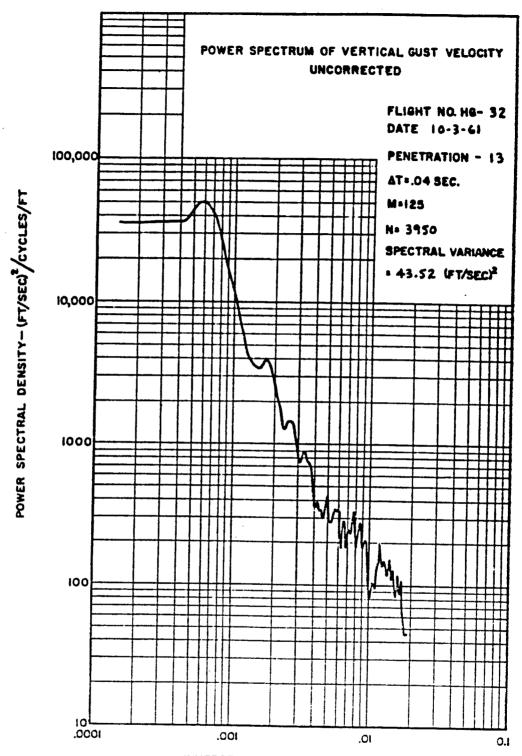
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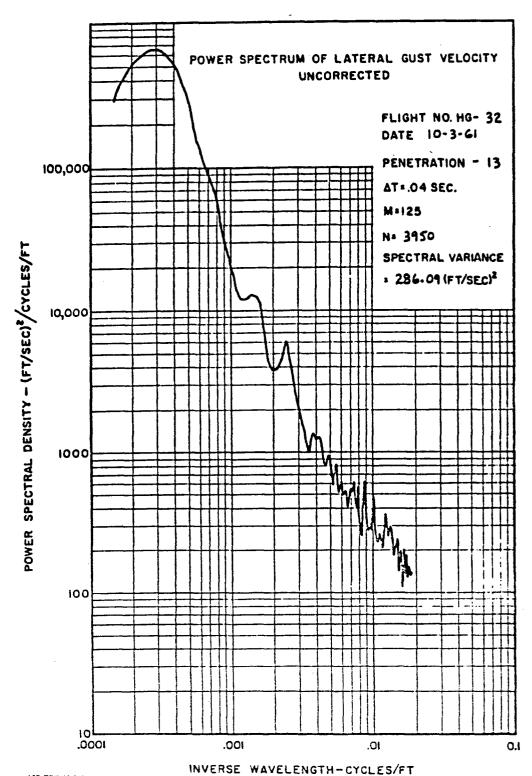
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INVERSE WAVELENGTH-CYCLES/FT



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INVERSE WAVELENGTH-CYCLES/FT

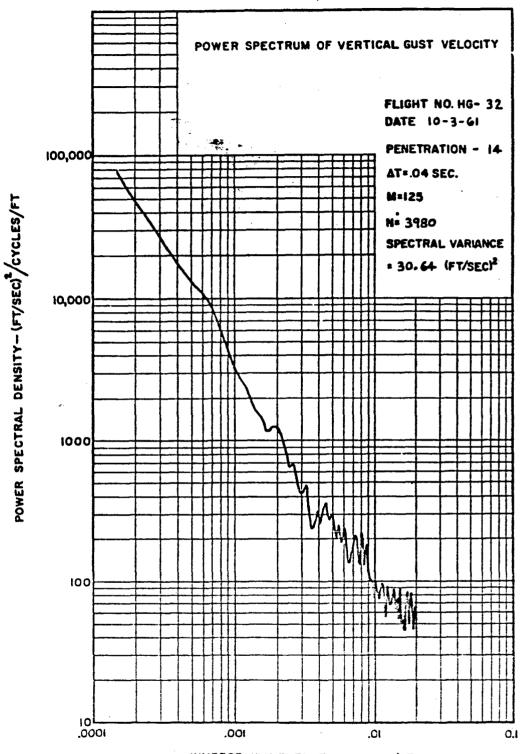


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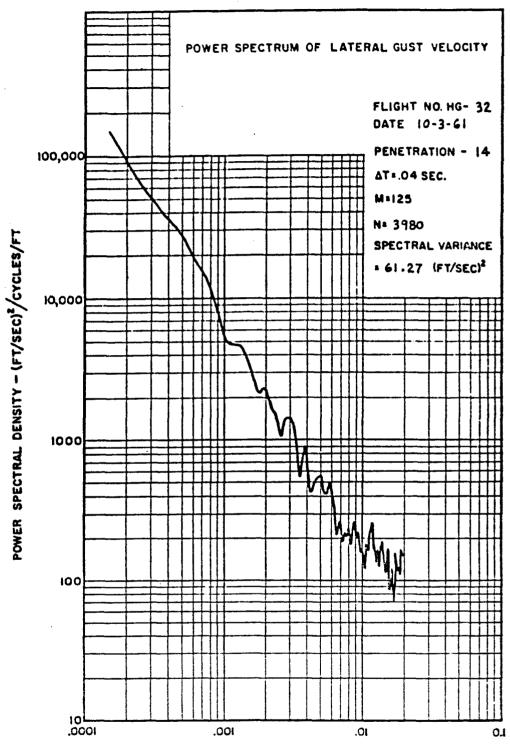
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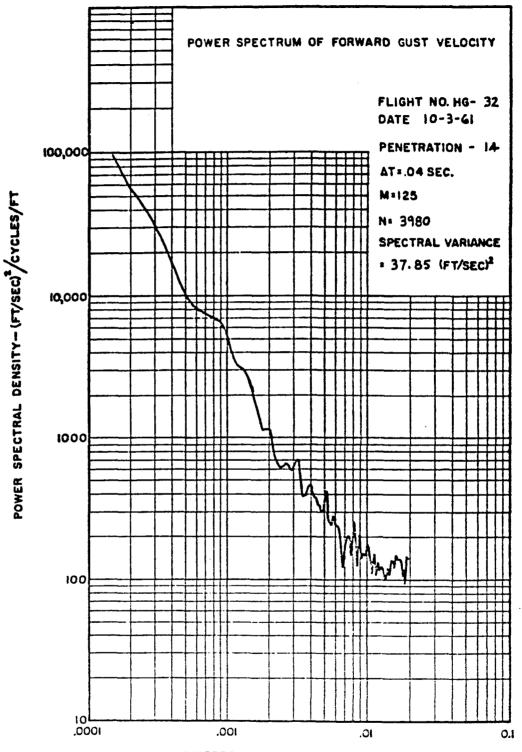
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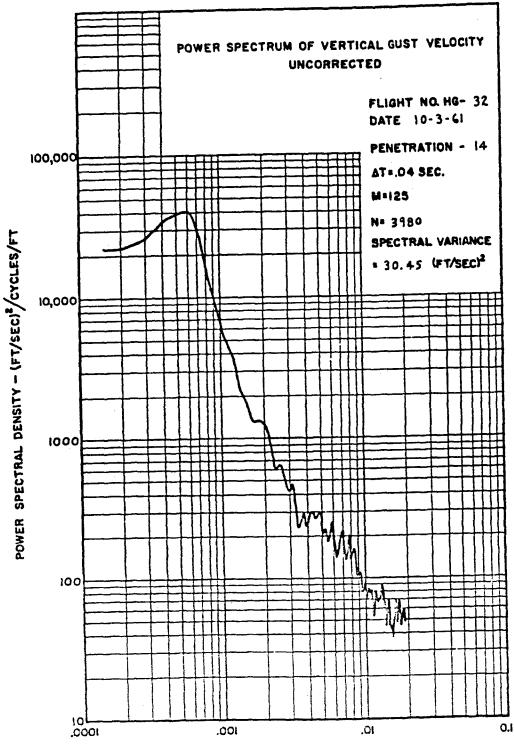
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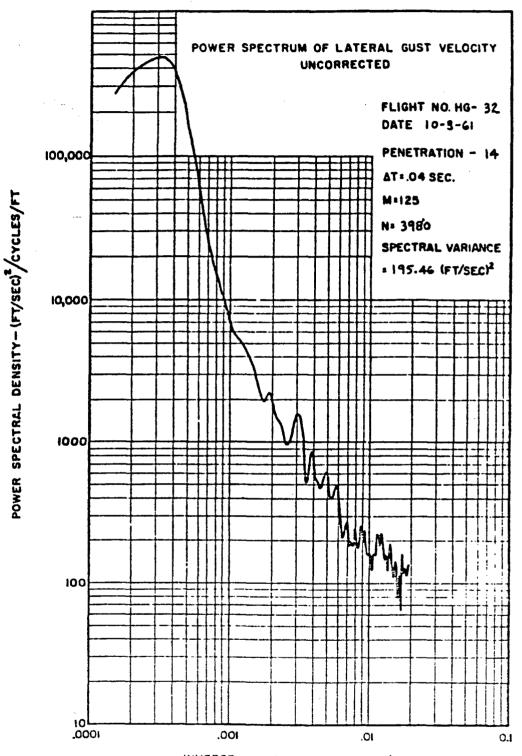
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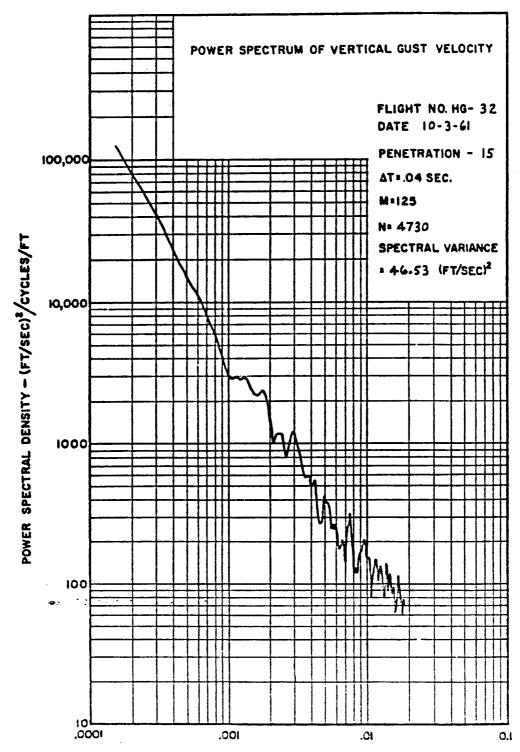
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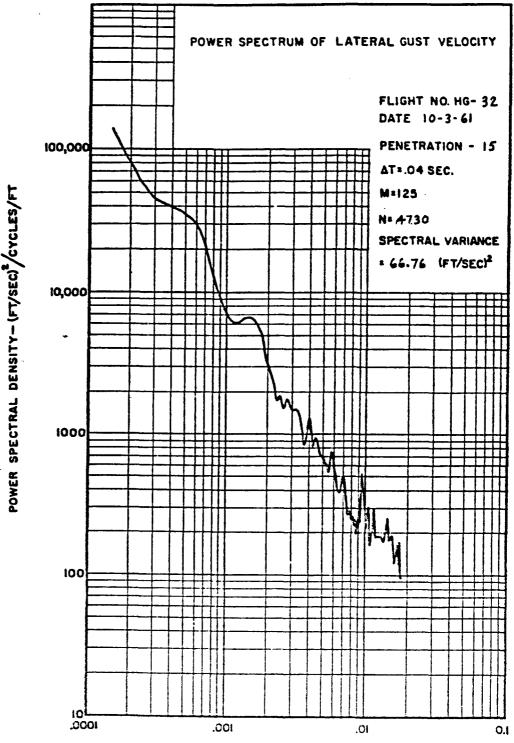
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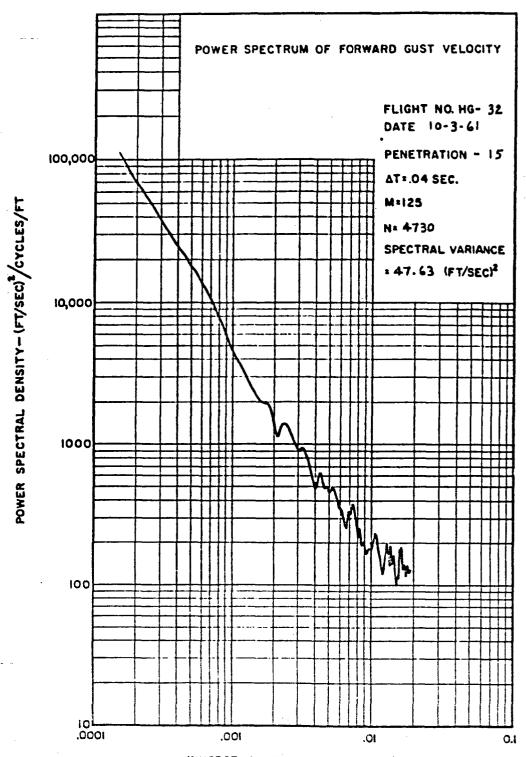
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INVERSE WAVELENGTH-CYCLES/FT



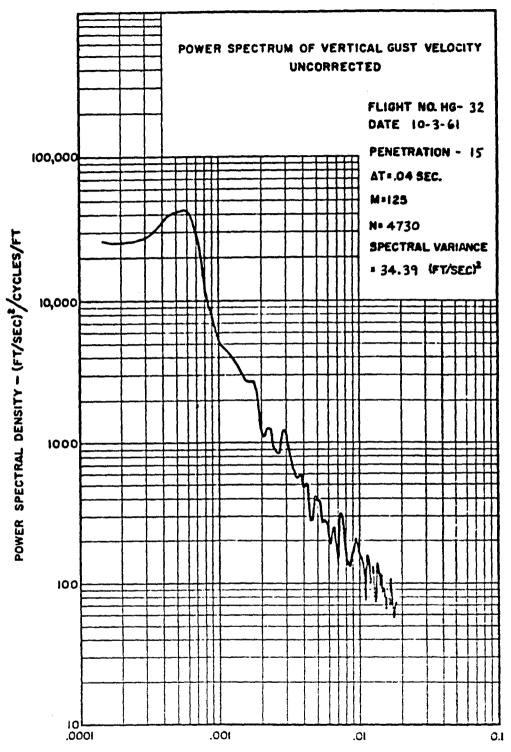
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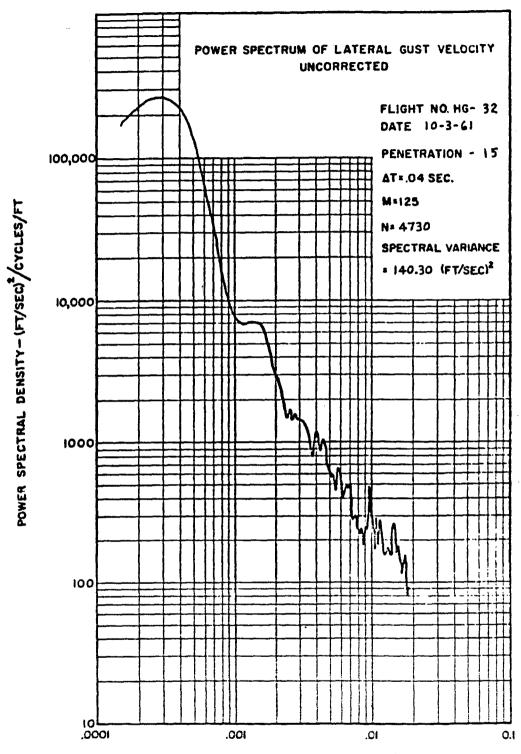


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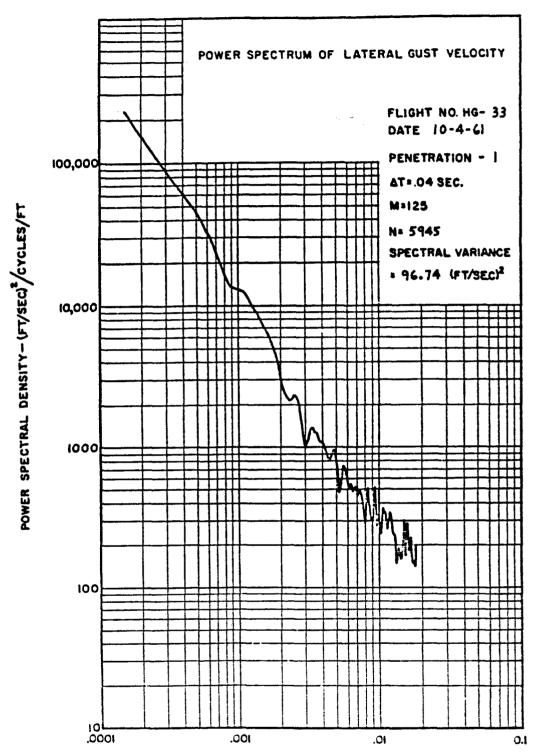


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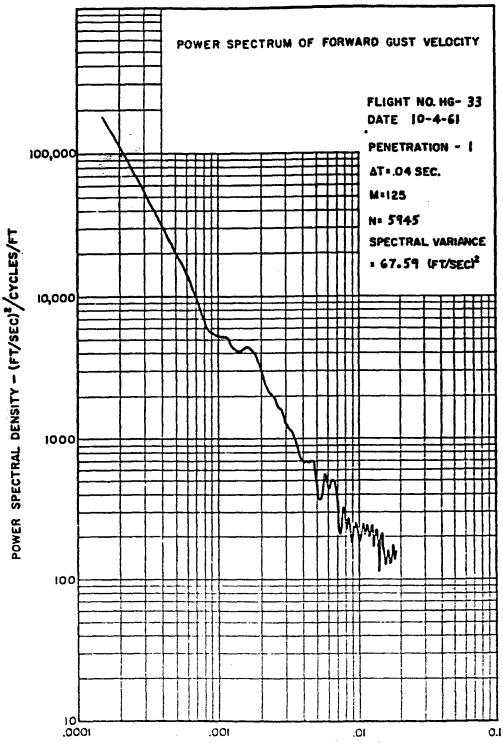
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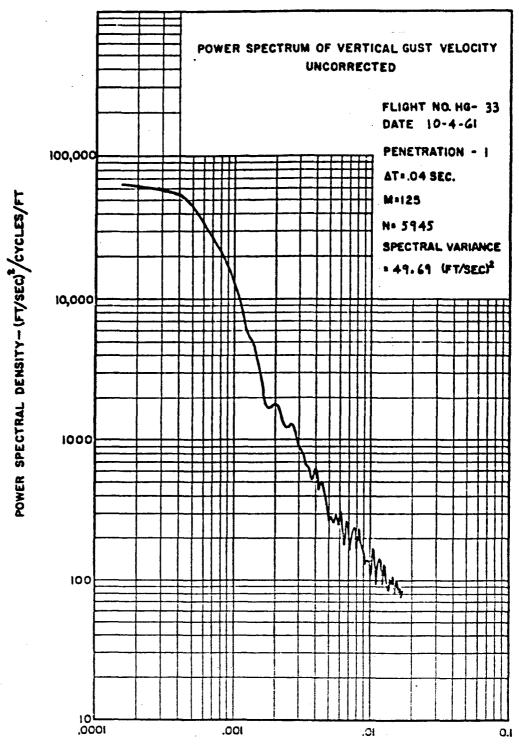


INVERSE WAVELENGTH-CYCLES/FT

ASO-TOR-AT-145 YOUUME !!

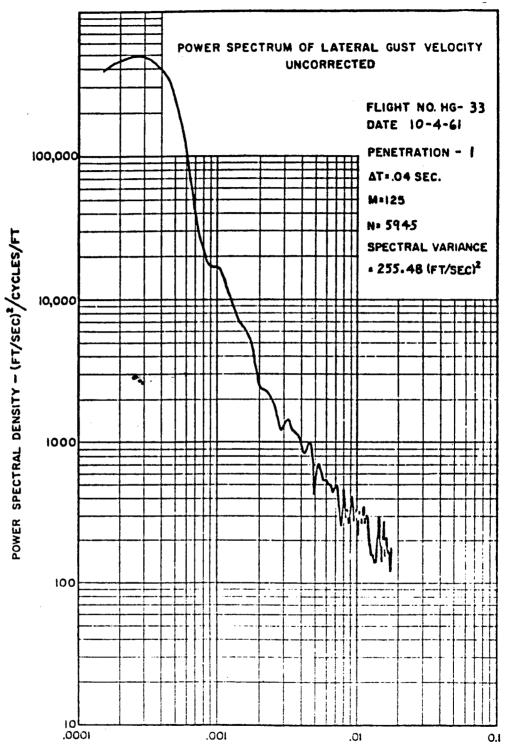


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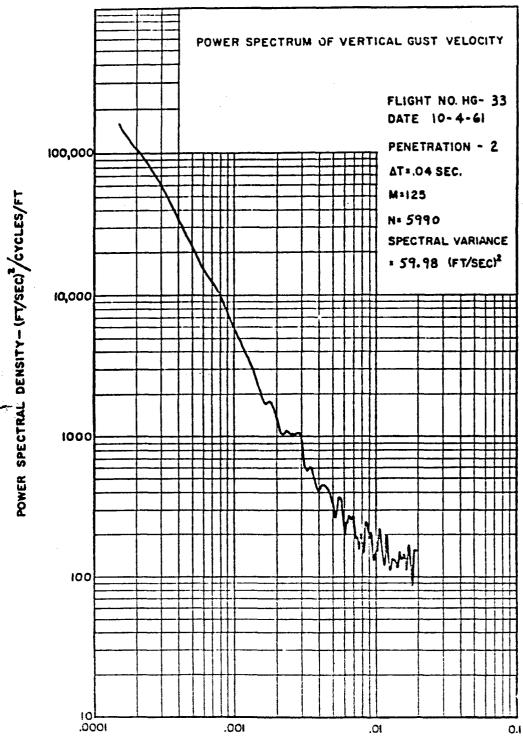
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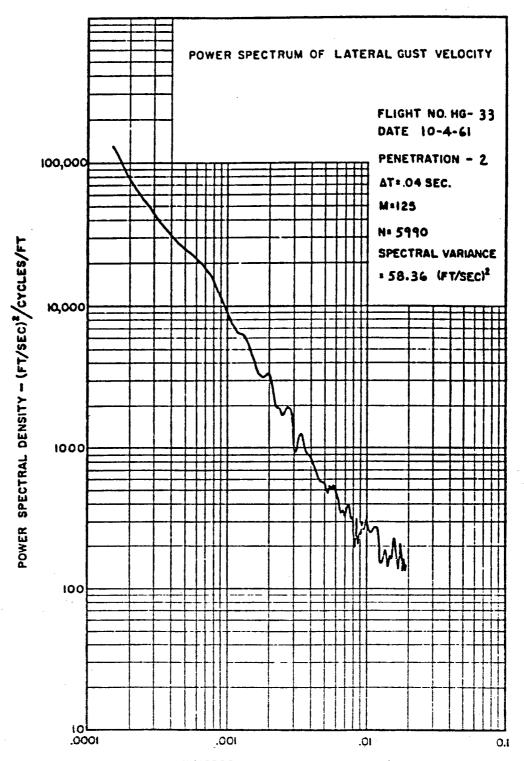
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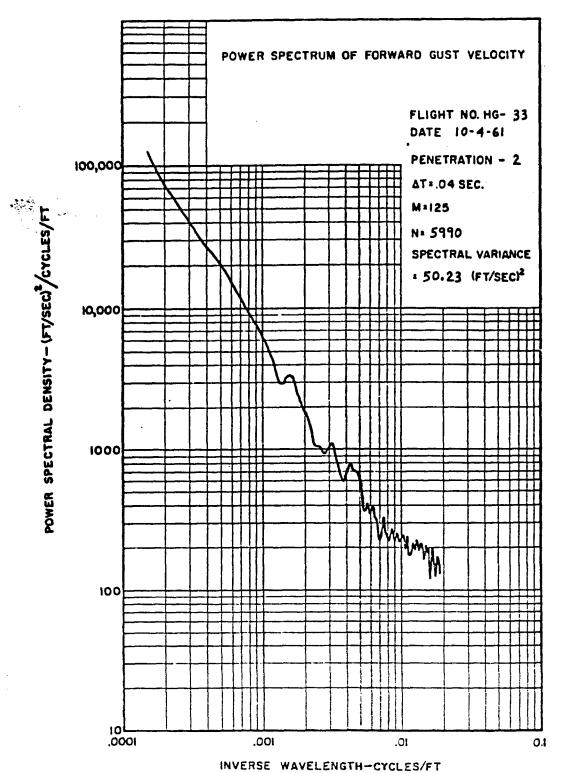
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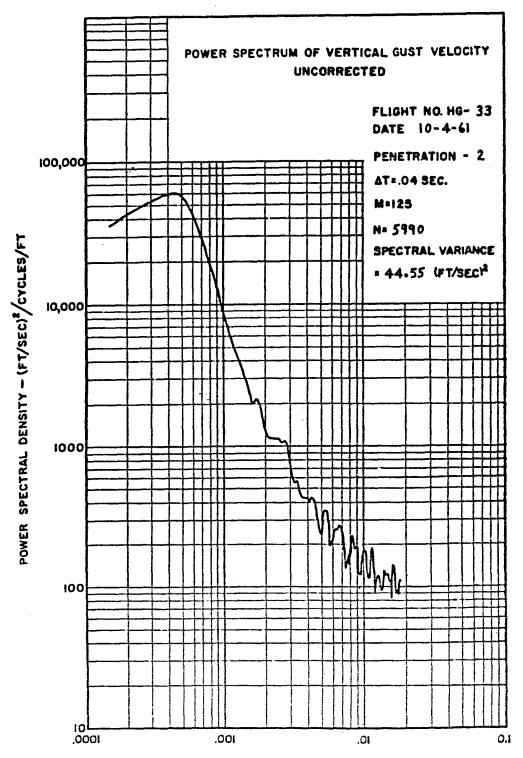


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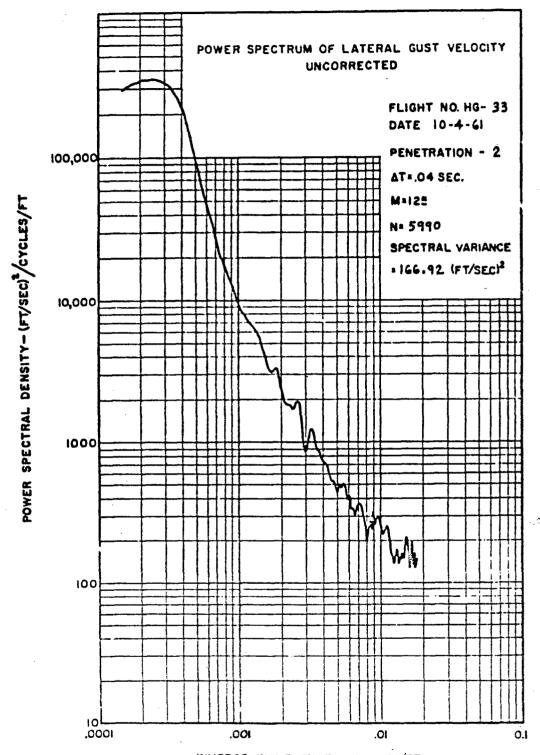


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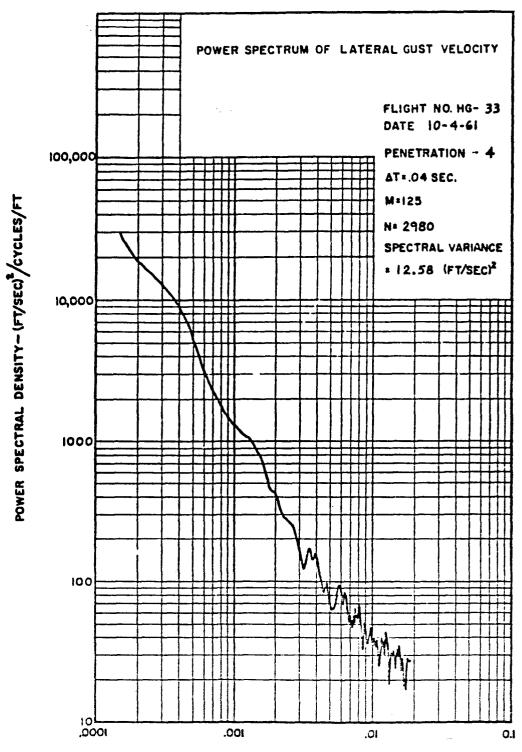
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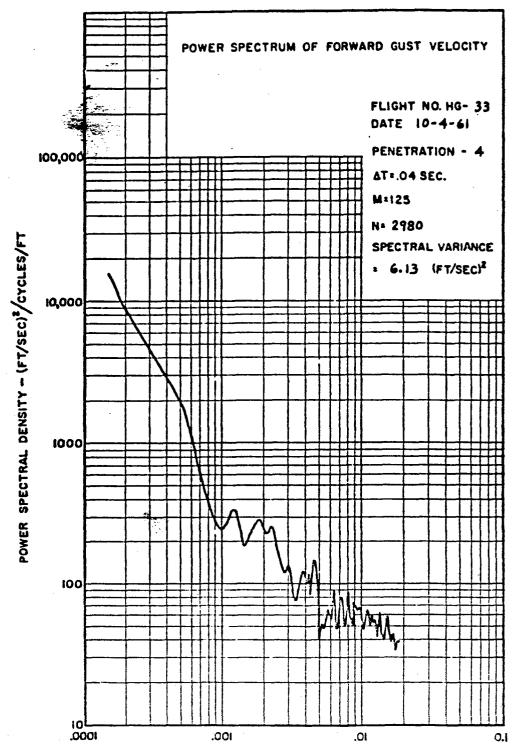
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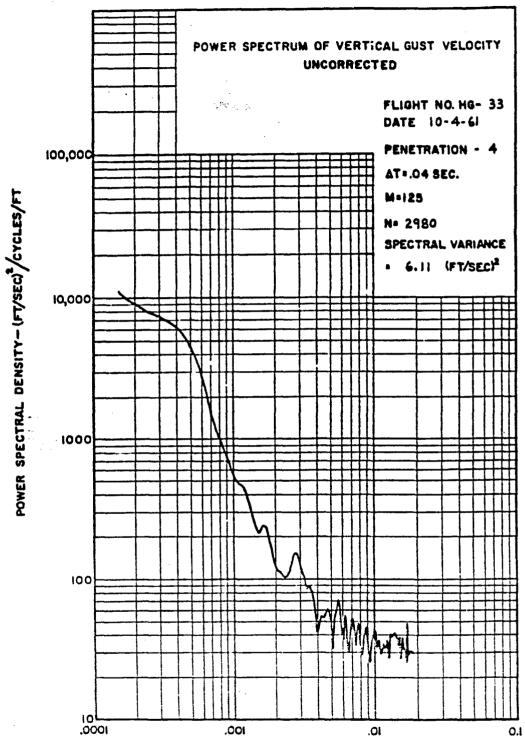
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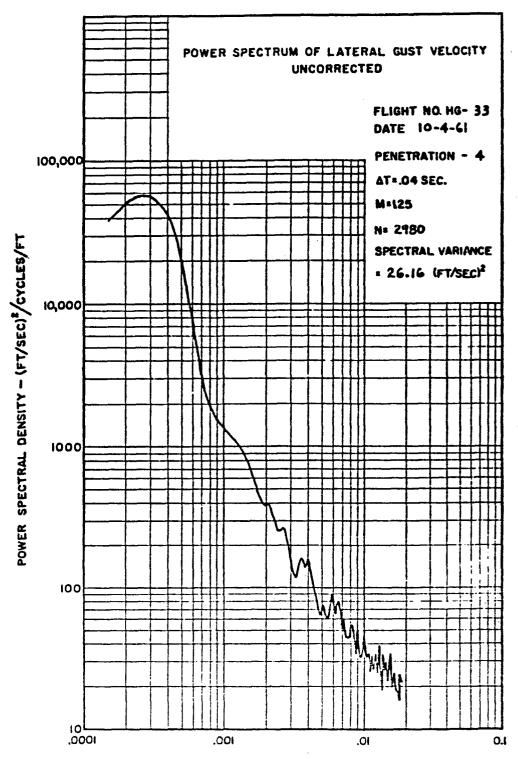
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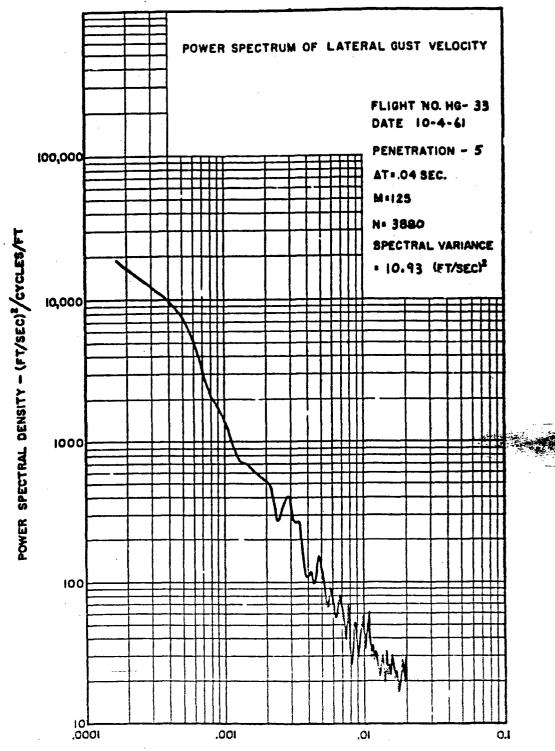
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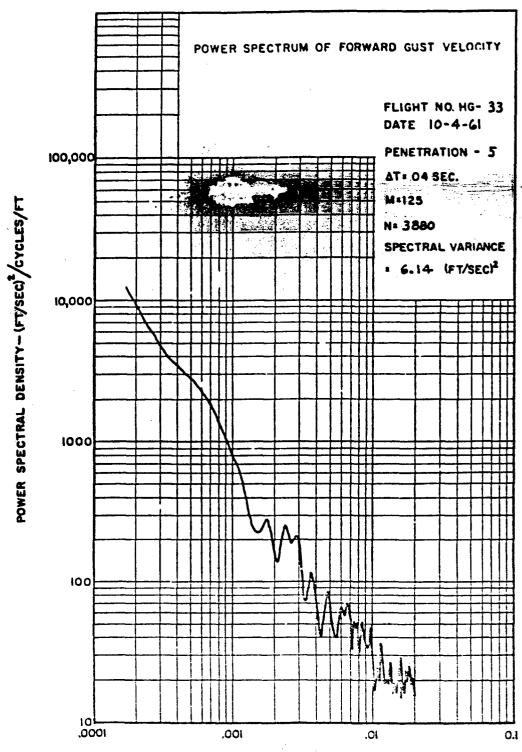
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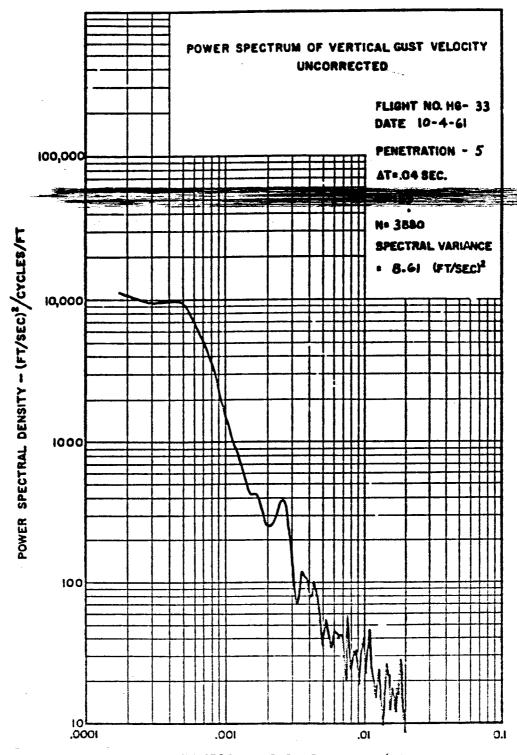
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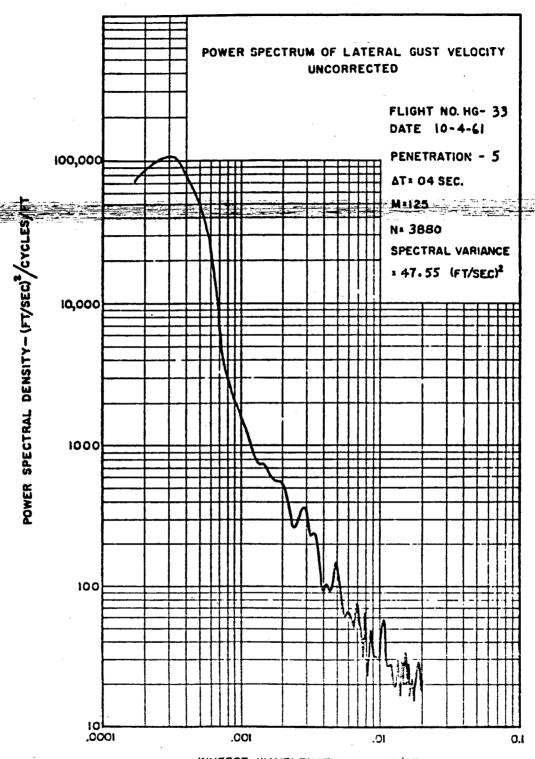
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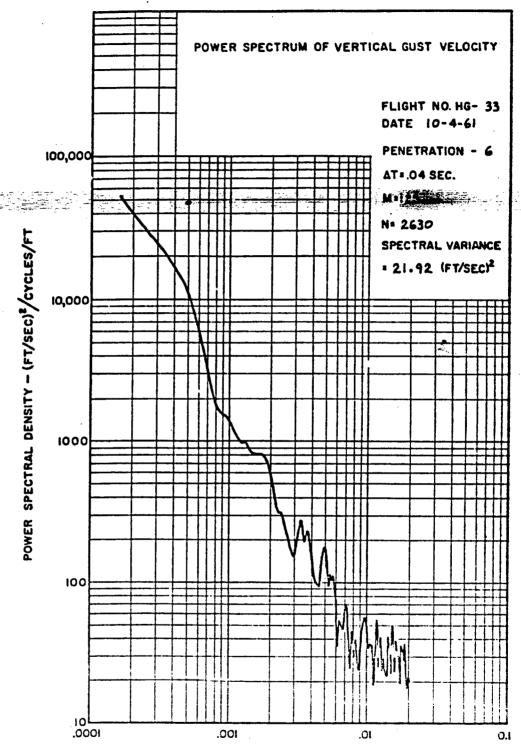
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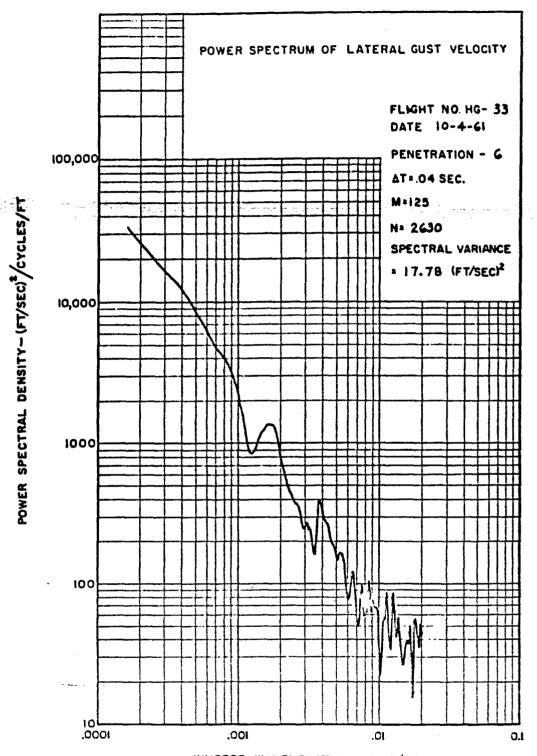
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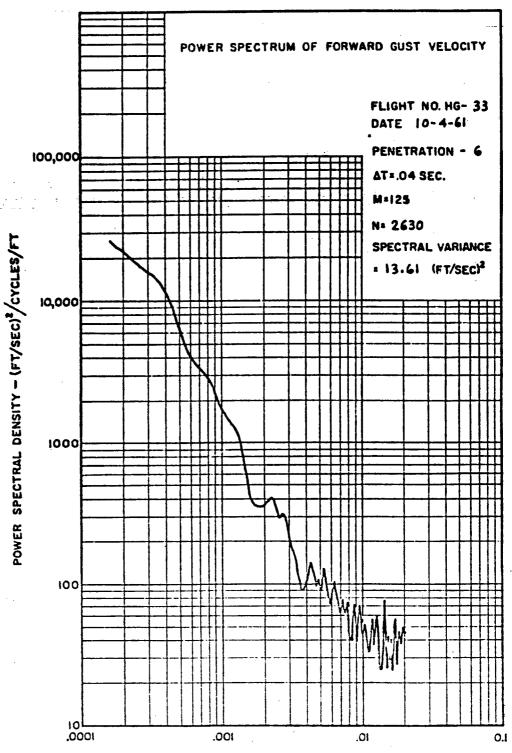
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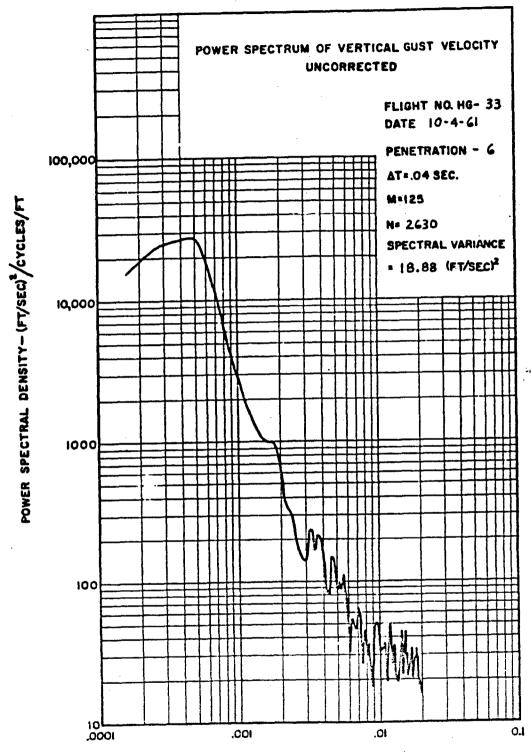
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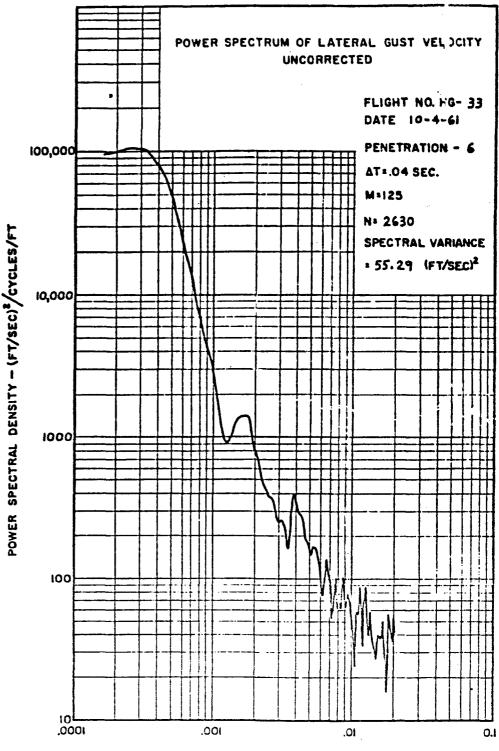
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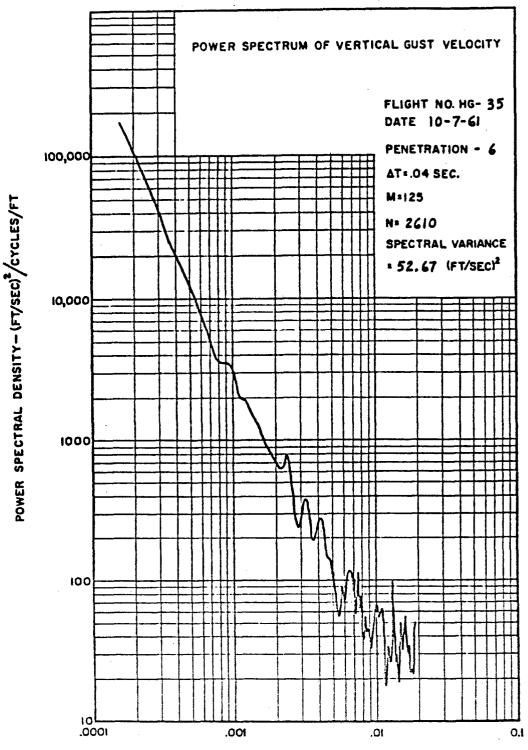
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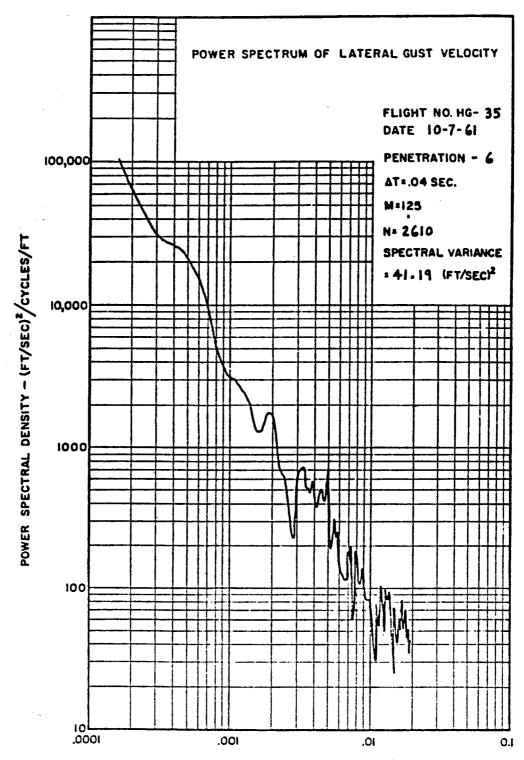


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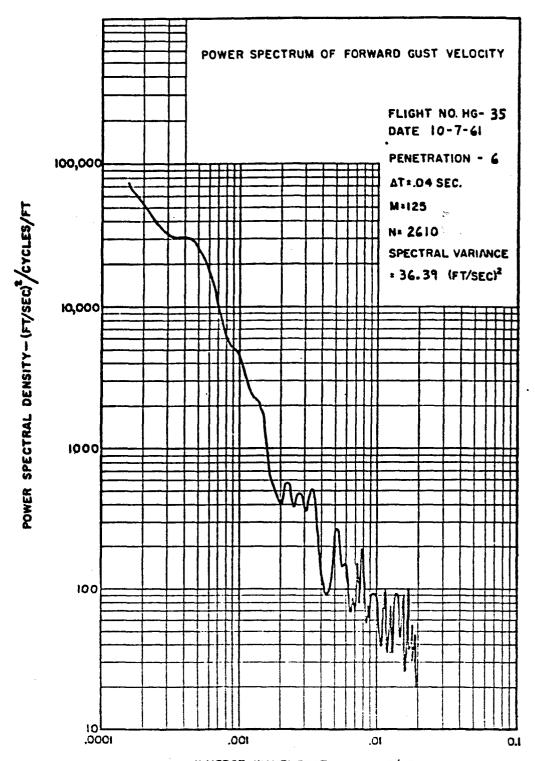


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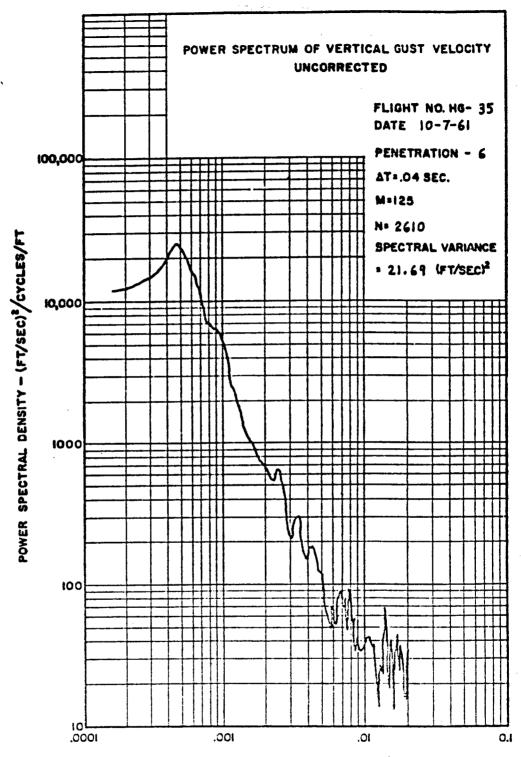
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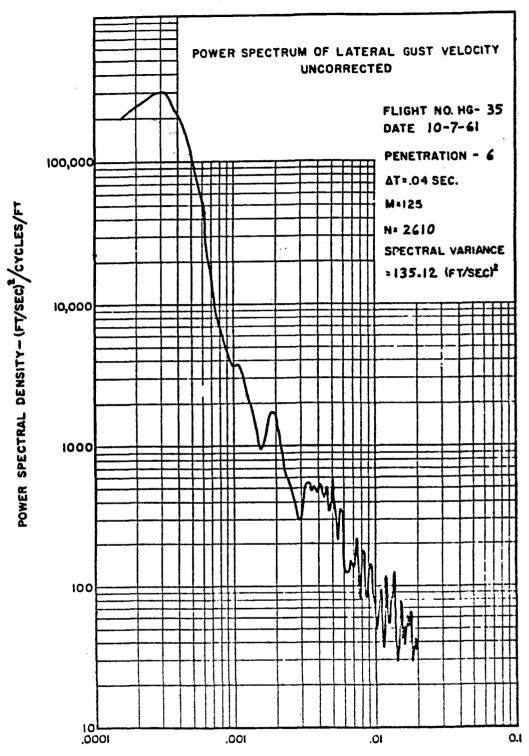


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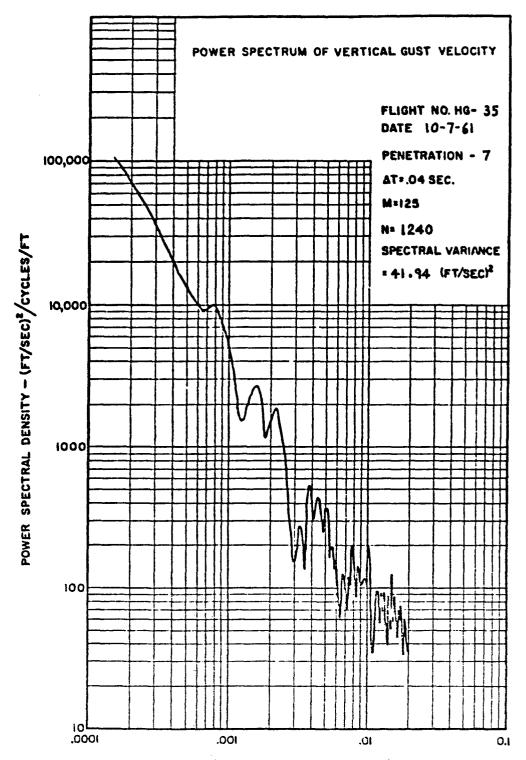


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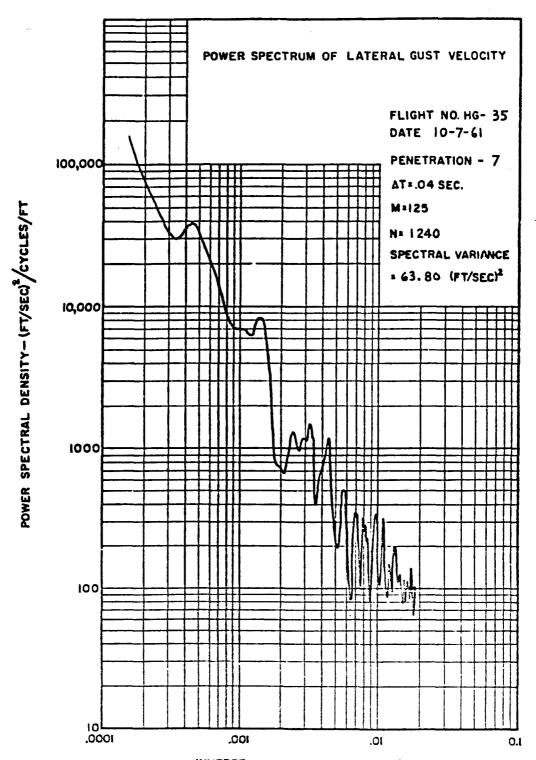
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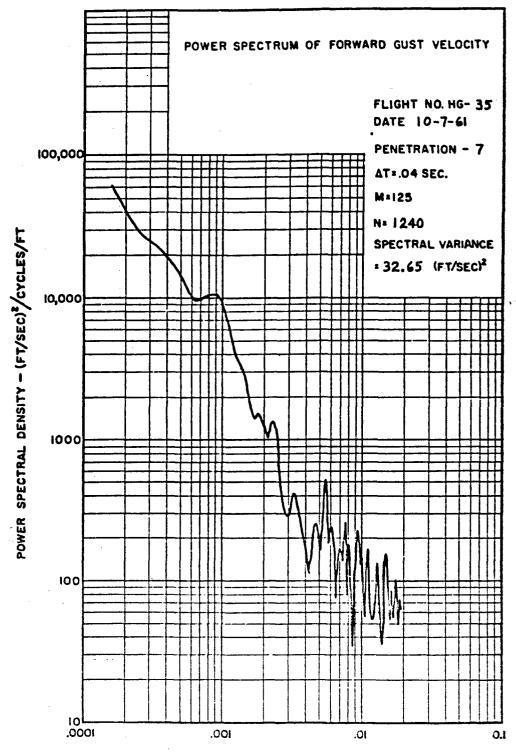
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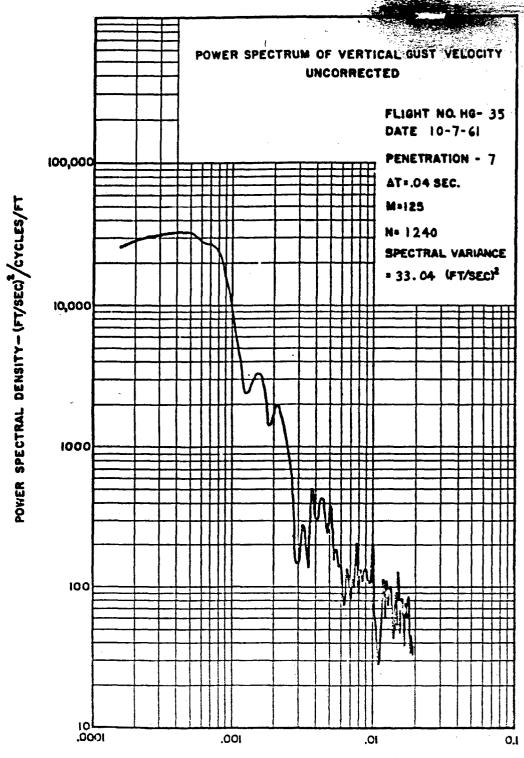
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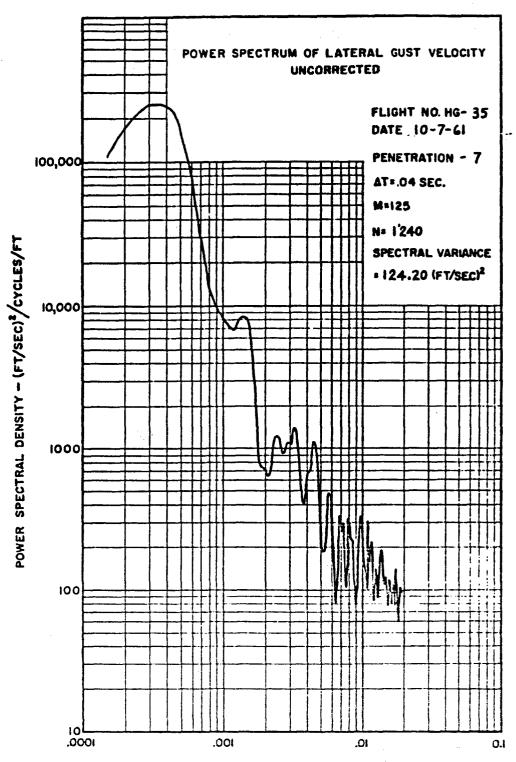
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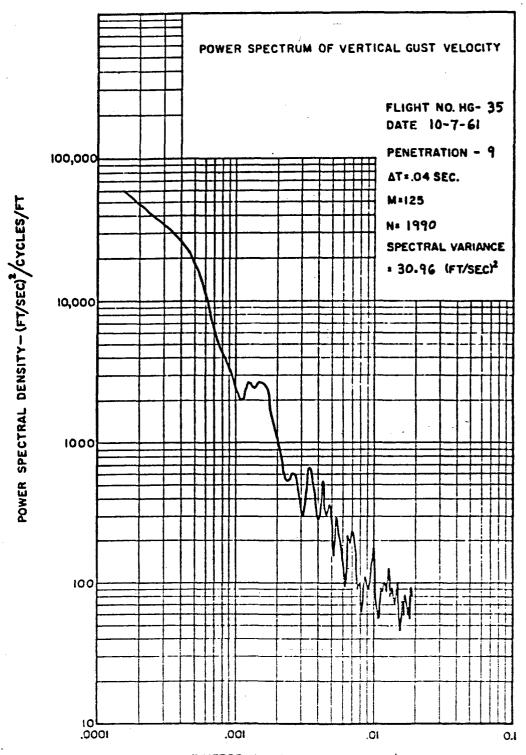
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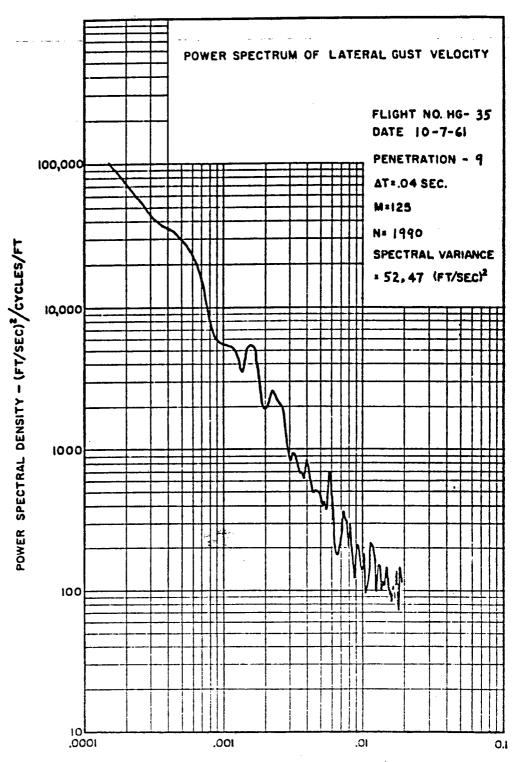
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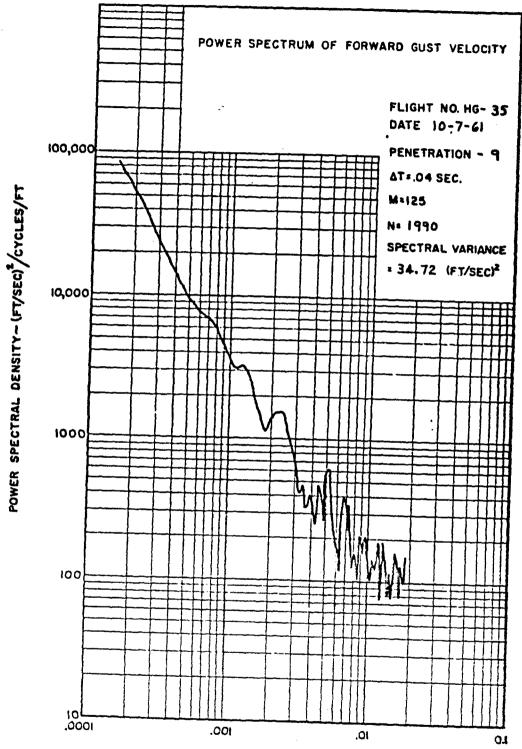
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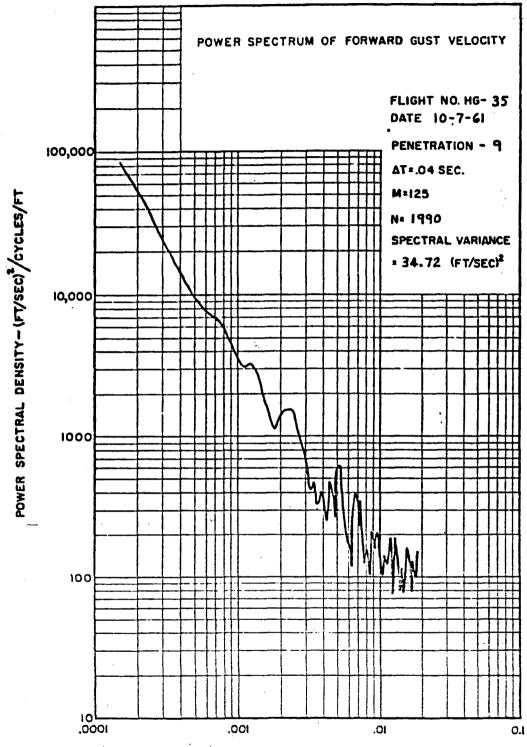


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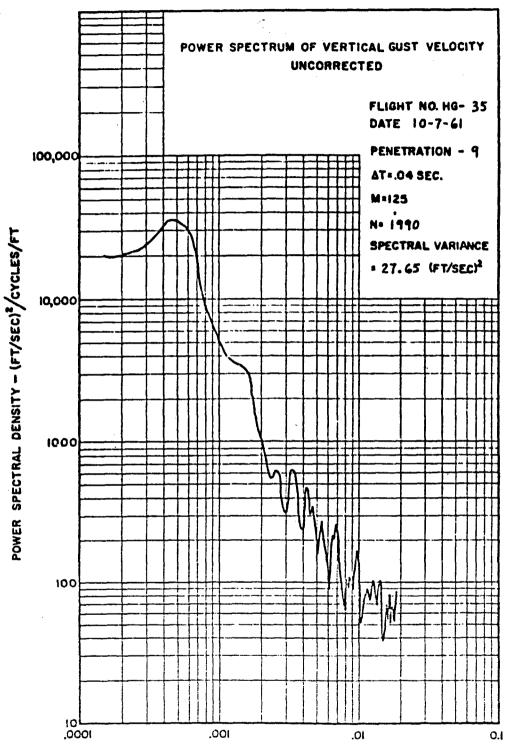
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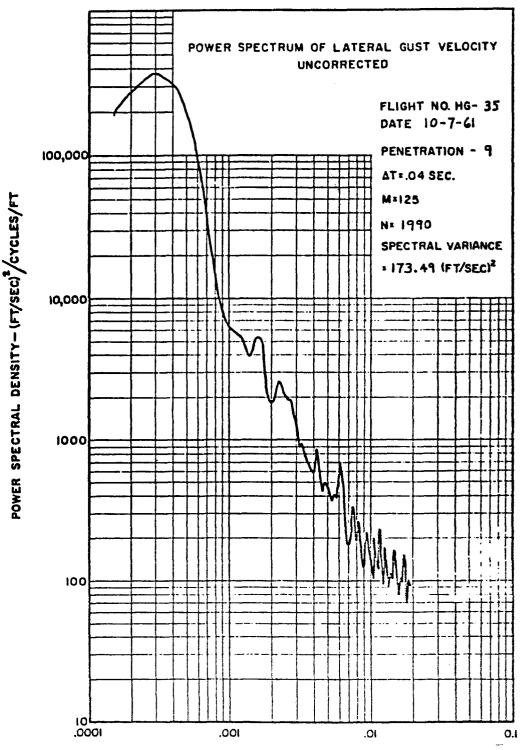


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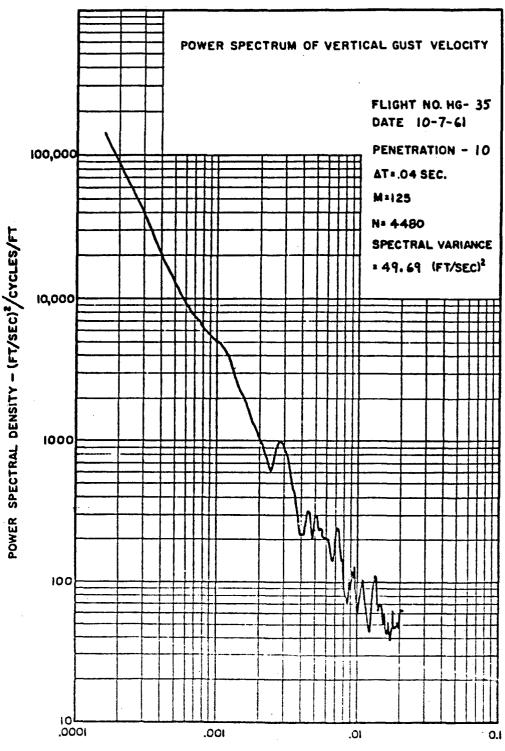
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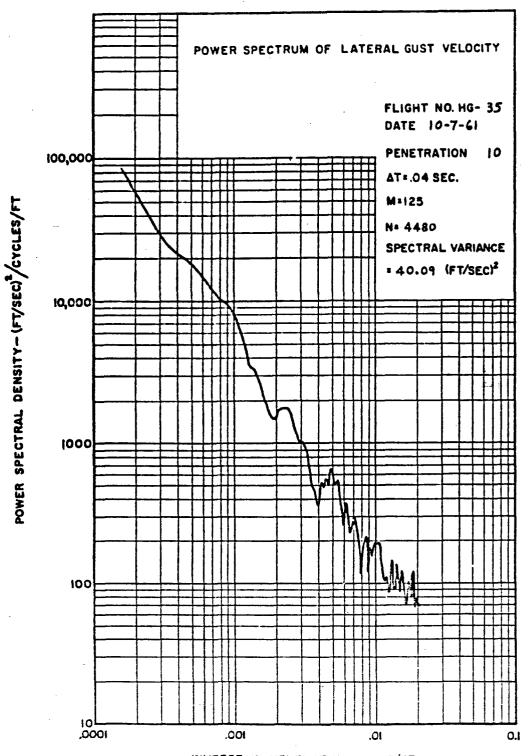
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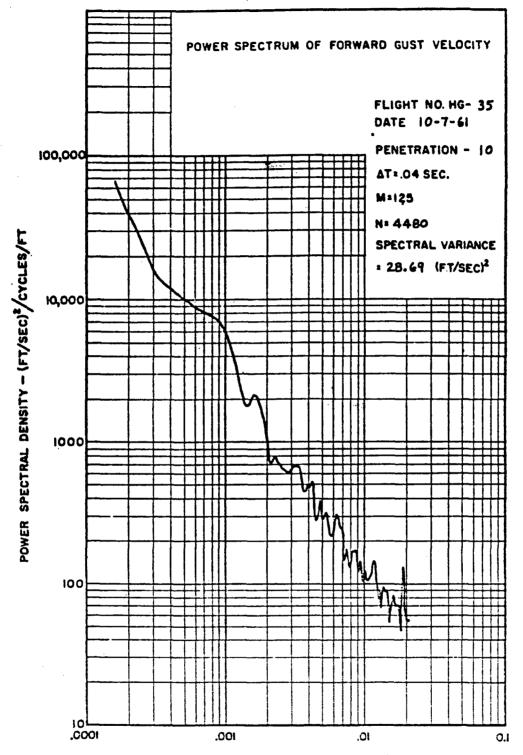
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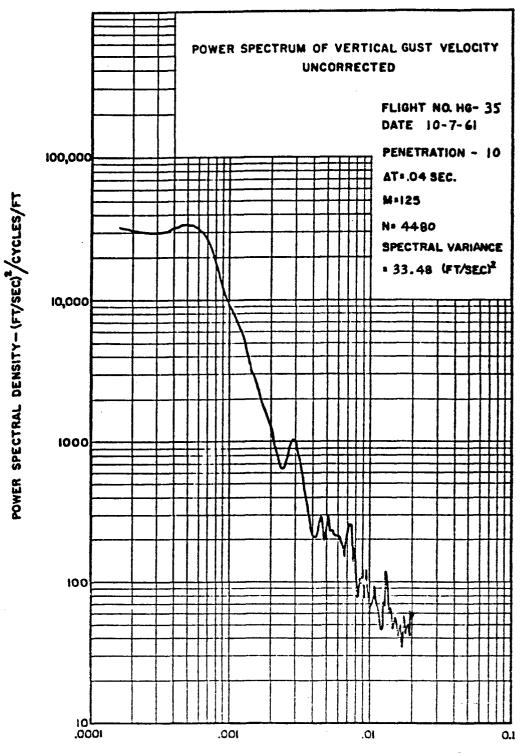
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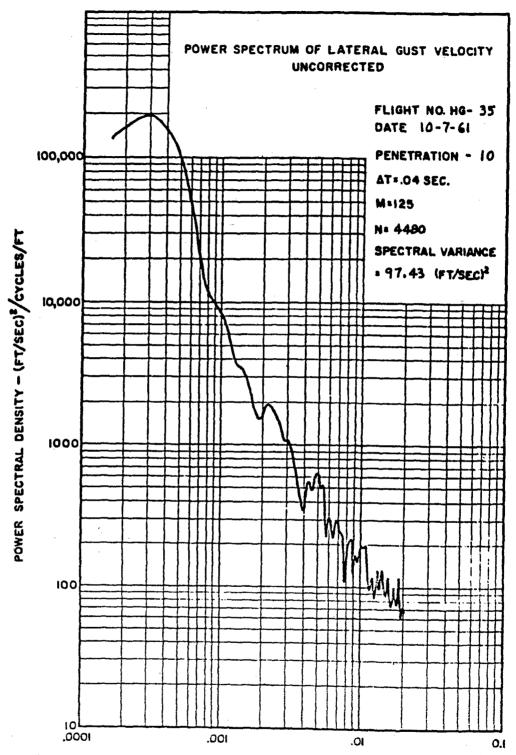
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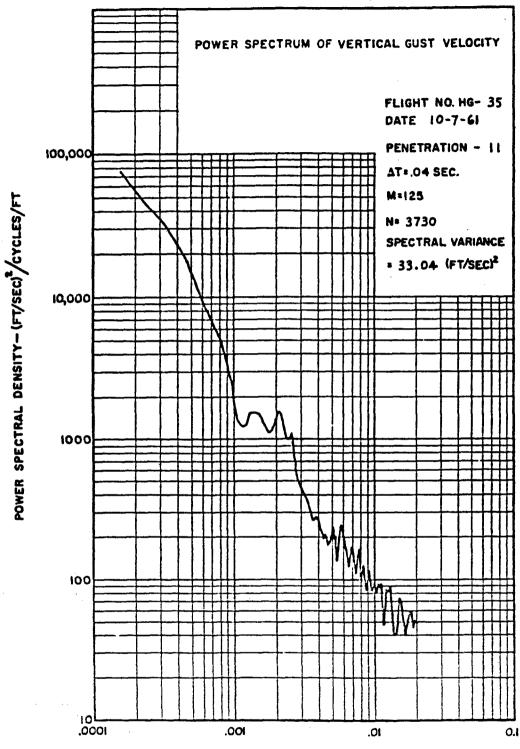
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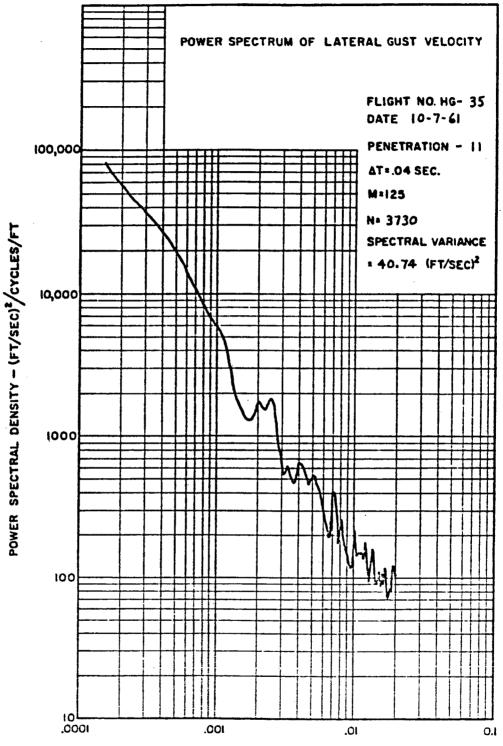
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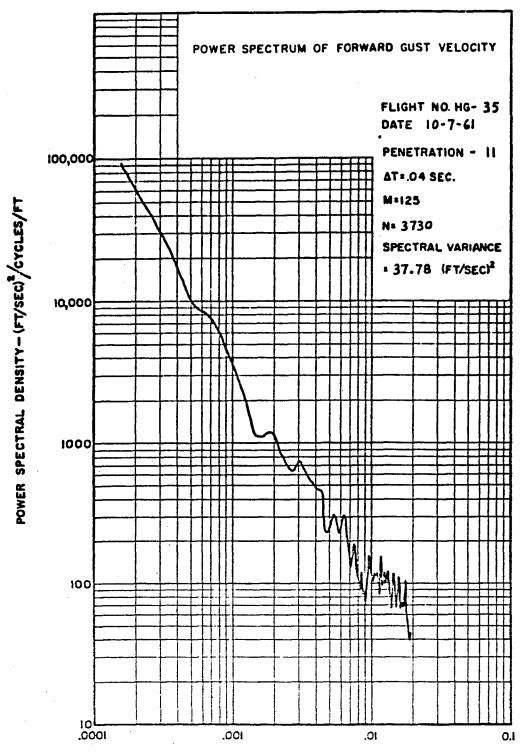
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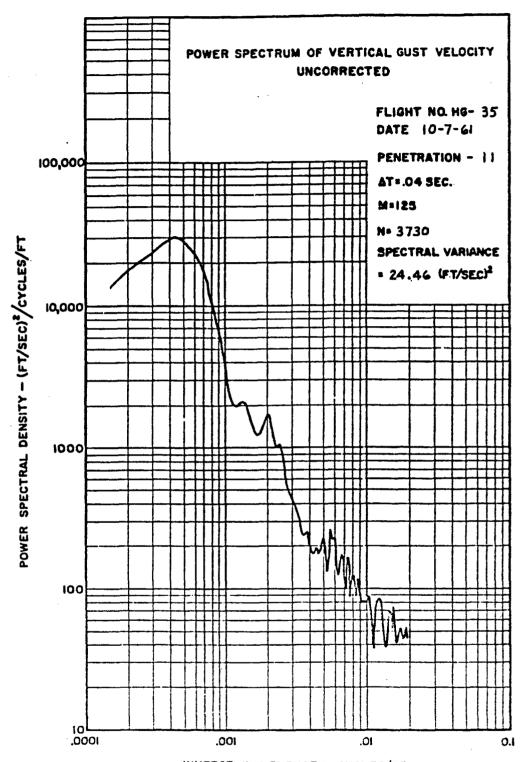
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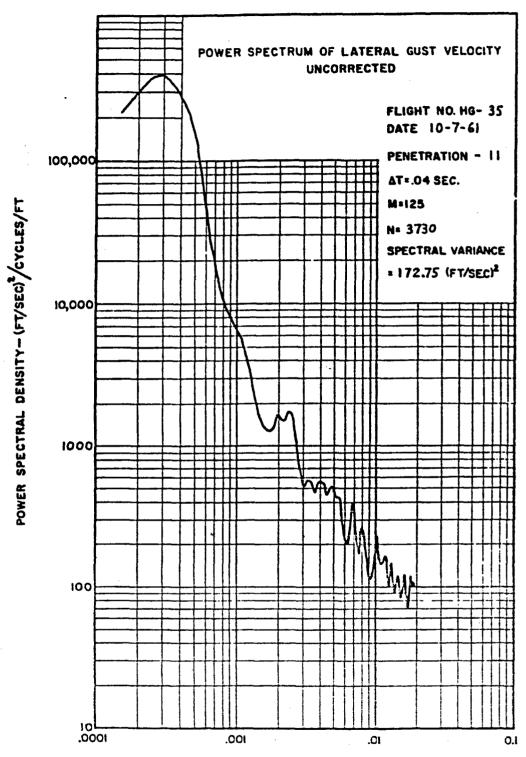
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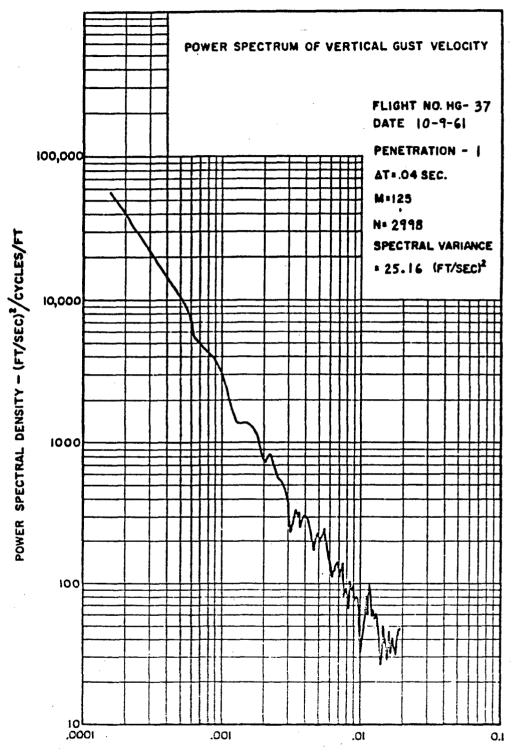
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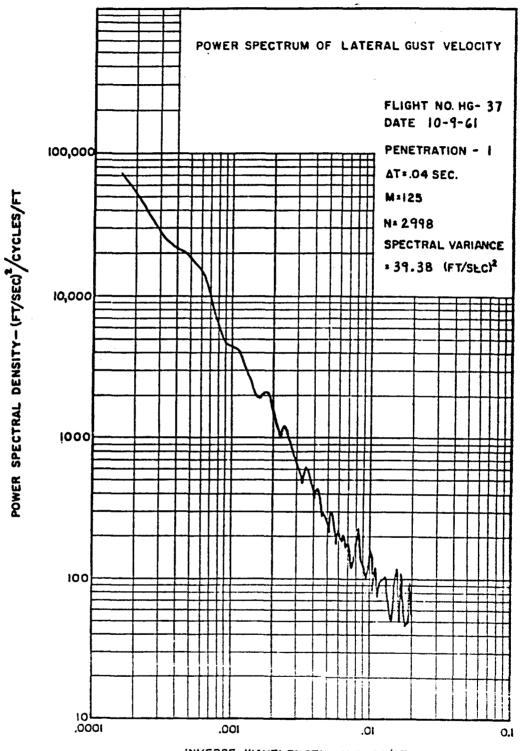
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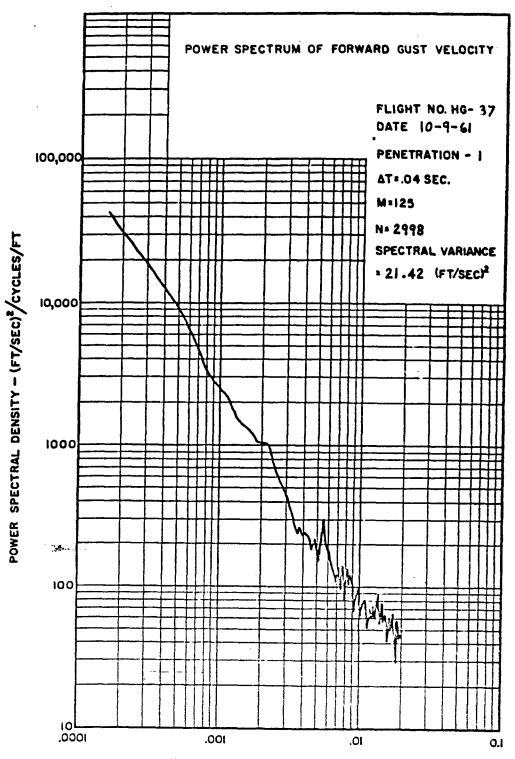
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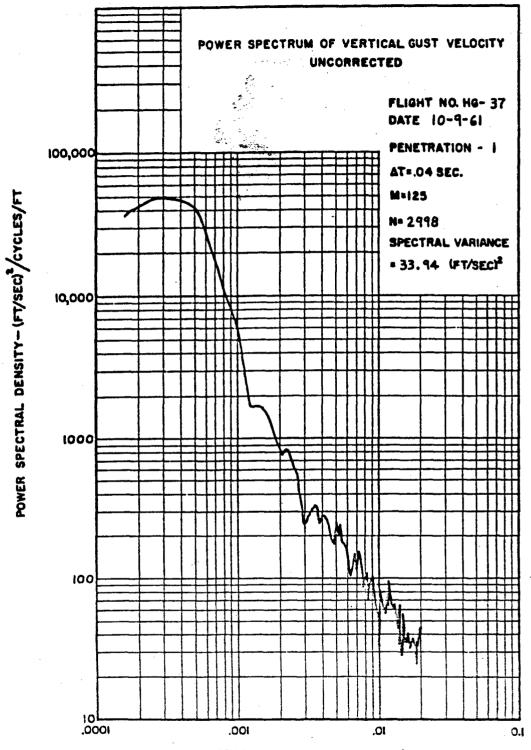
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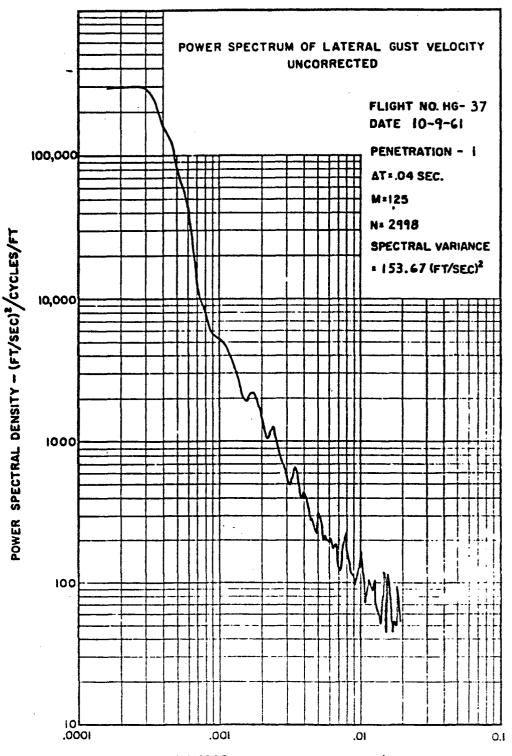
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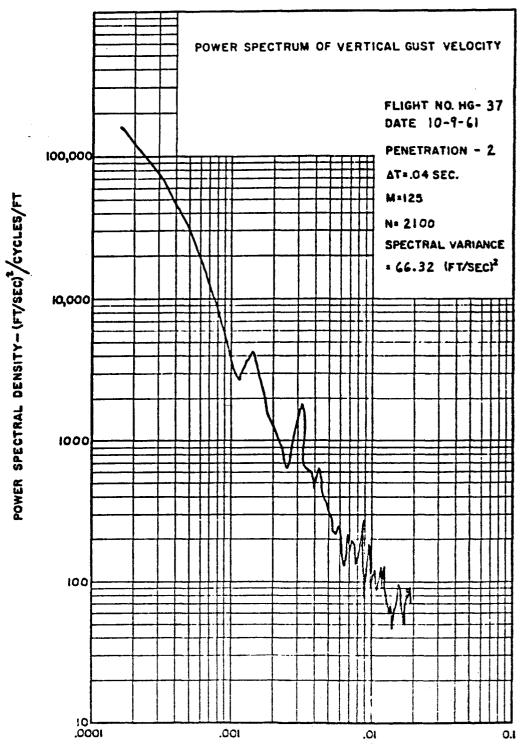
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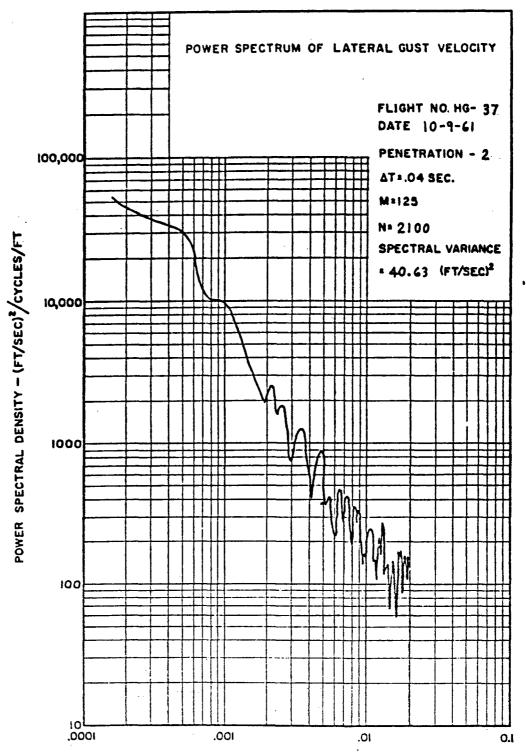
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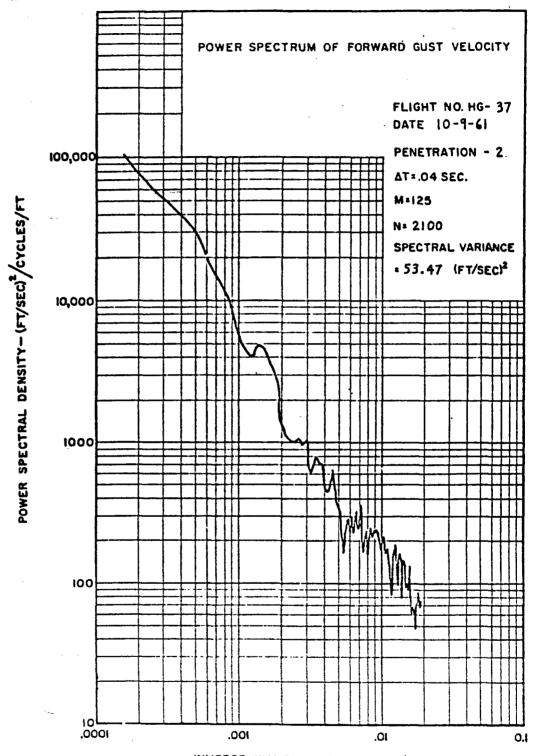
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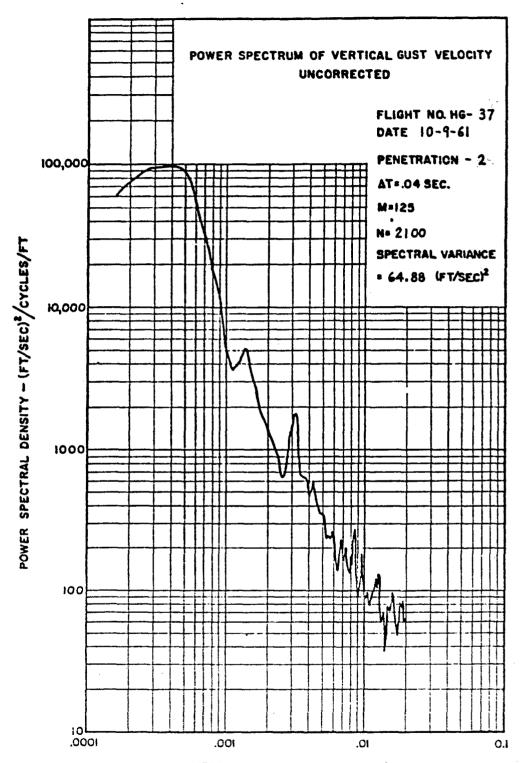
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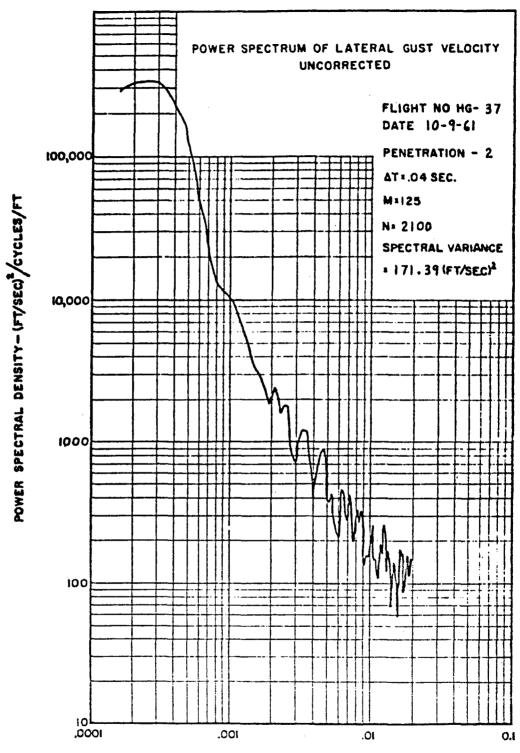
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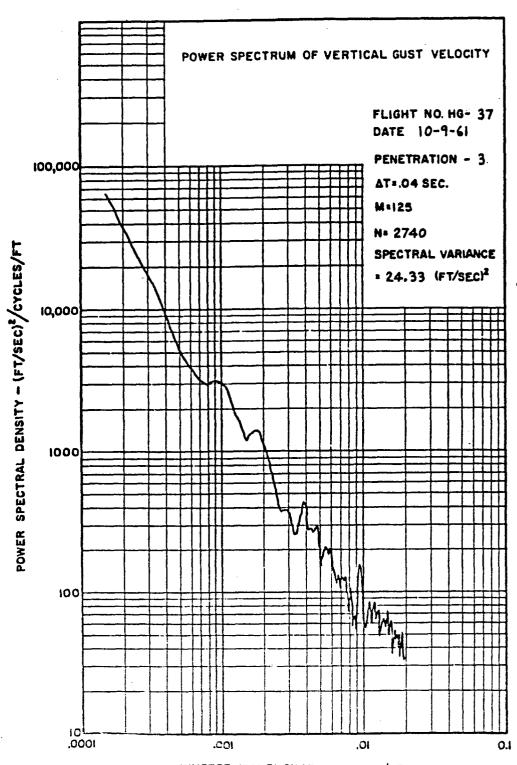
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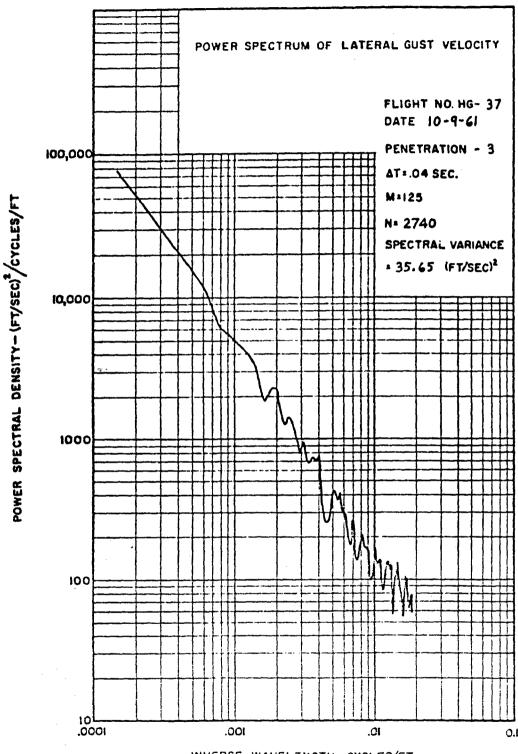


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INVERSE WAVELENGTH-CYCLES/FT

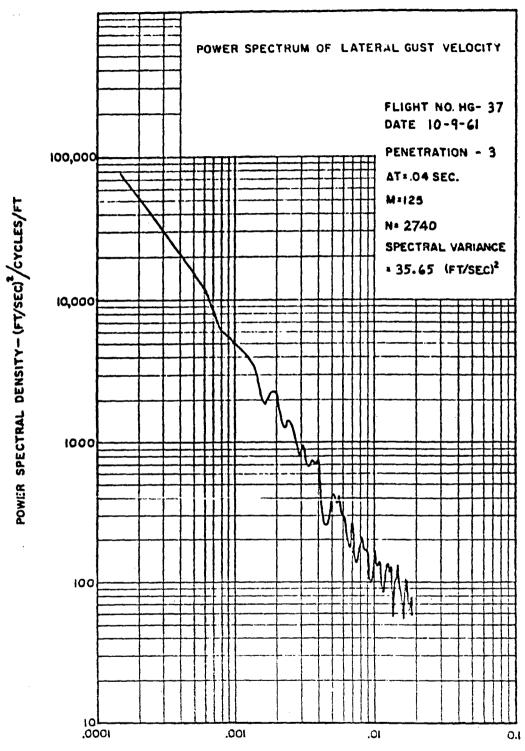


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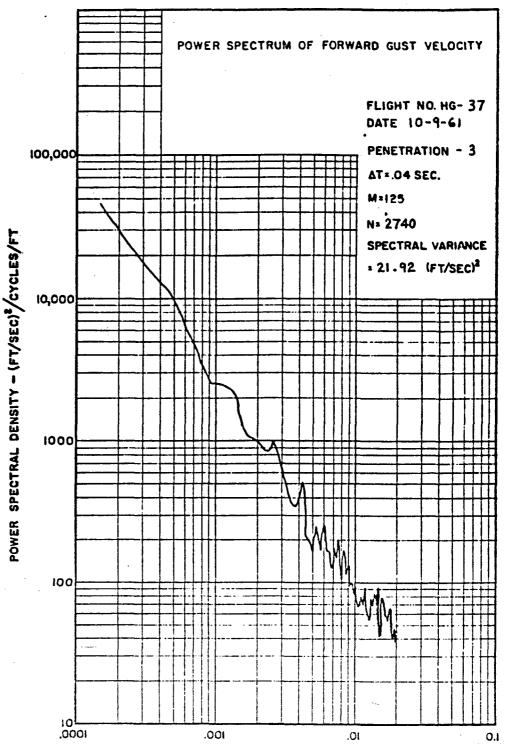
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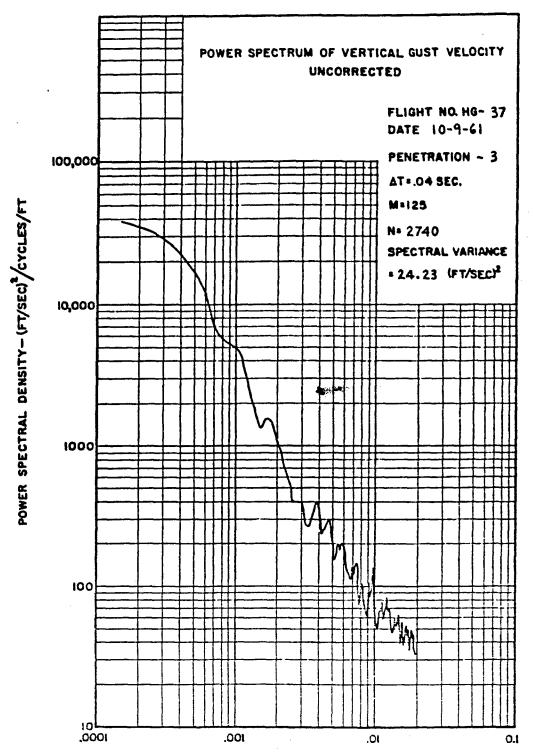
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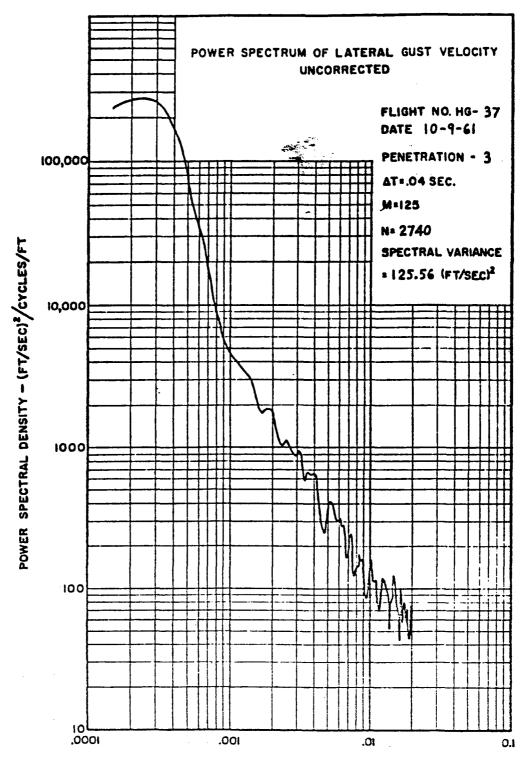
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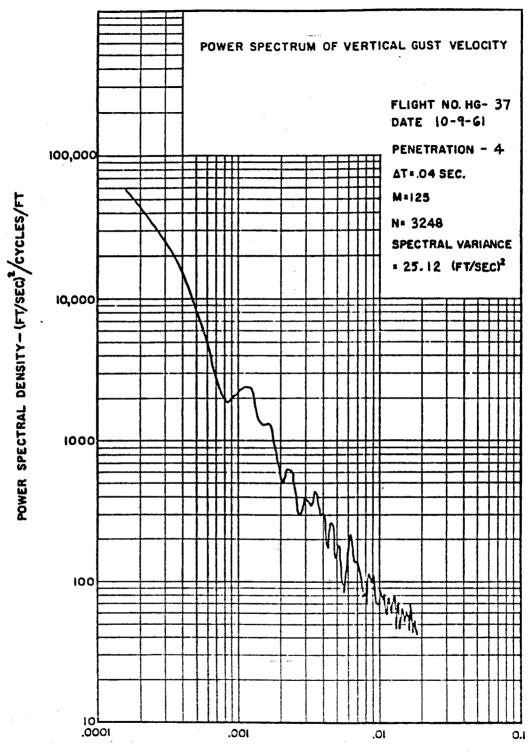
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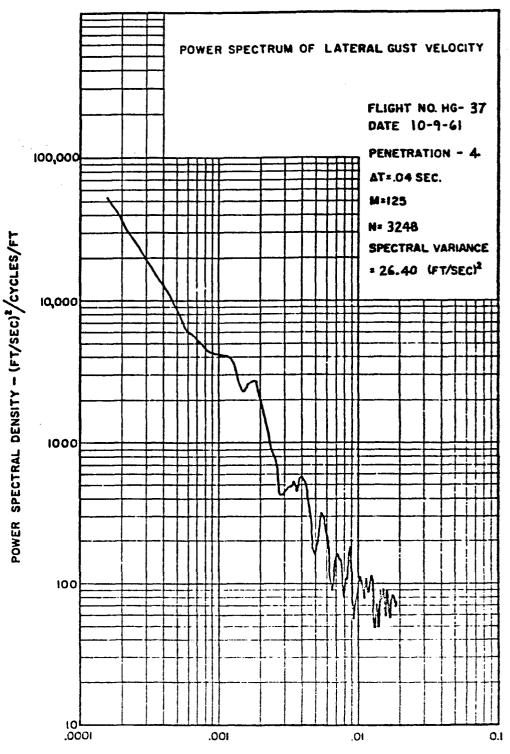
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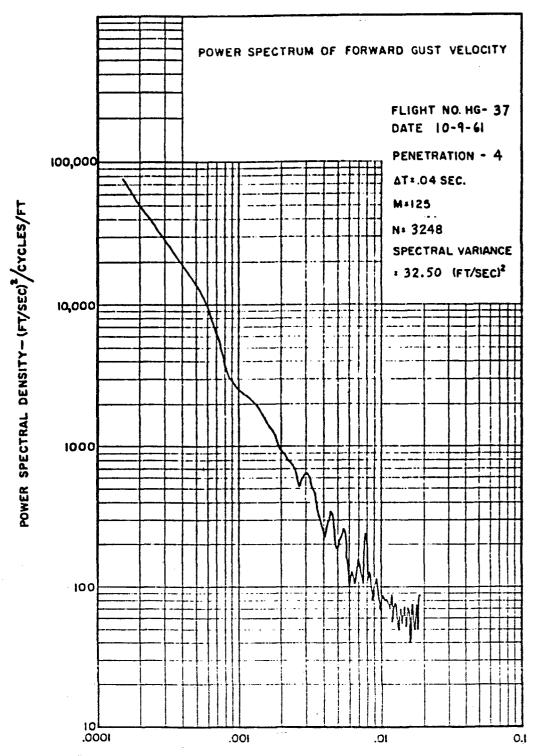
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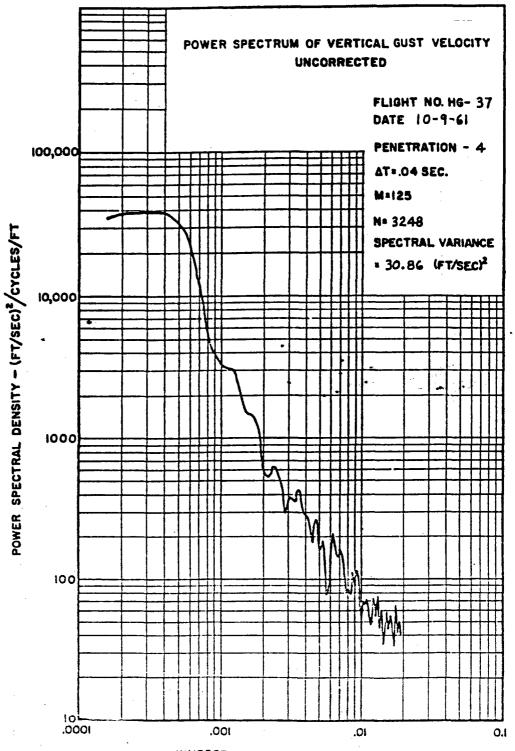
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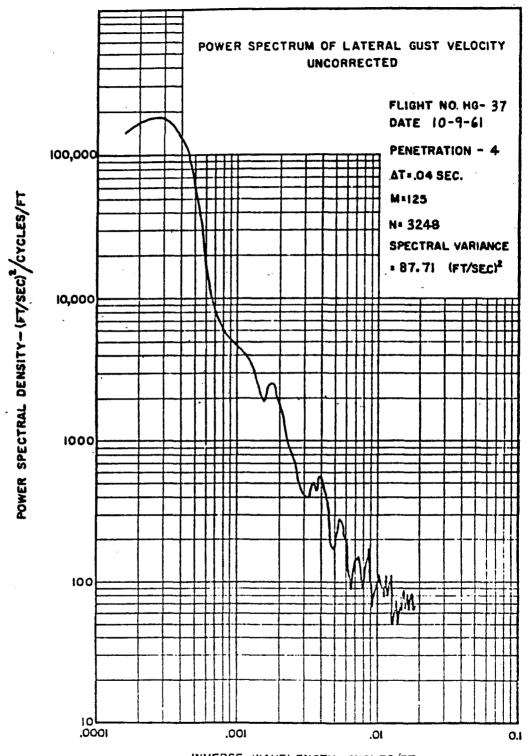
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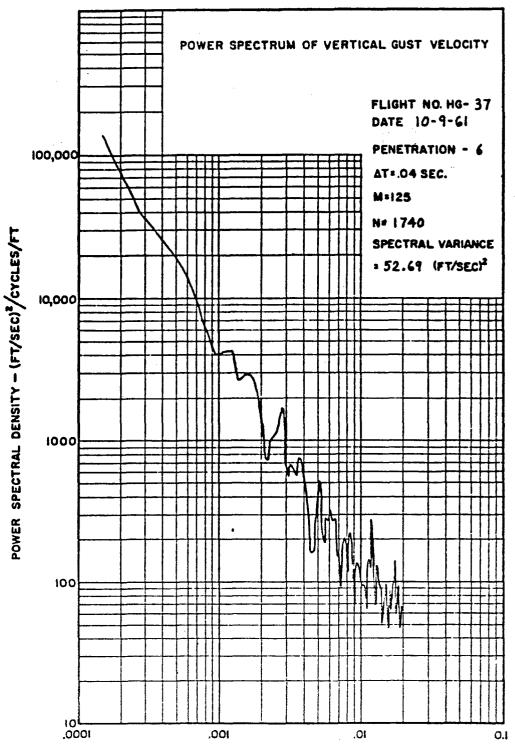
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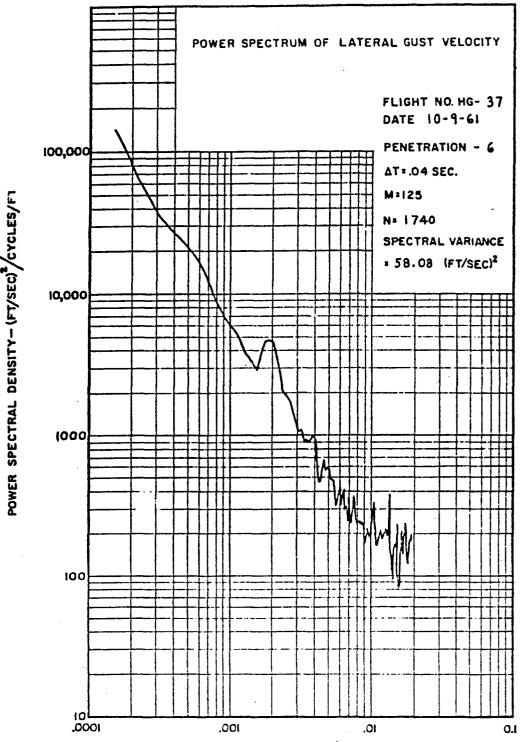
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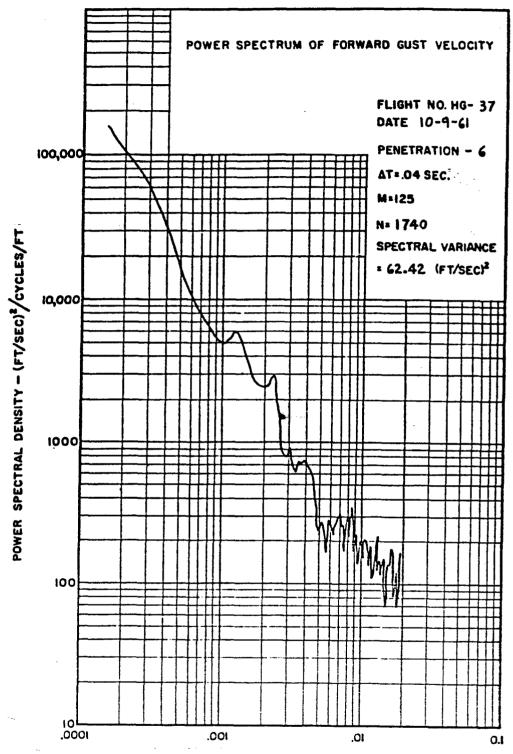
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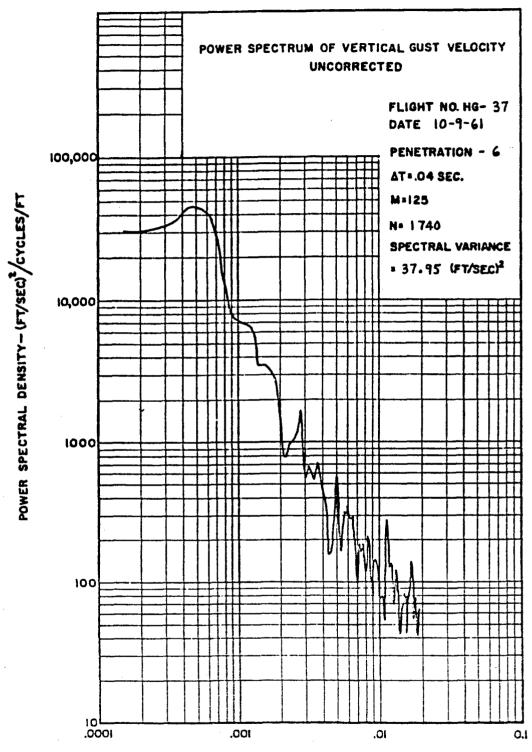
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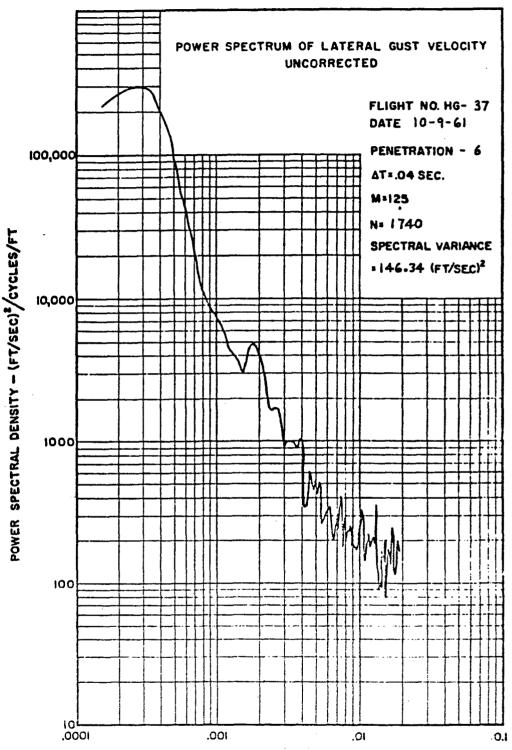
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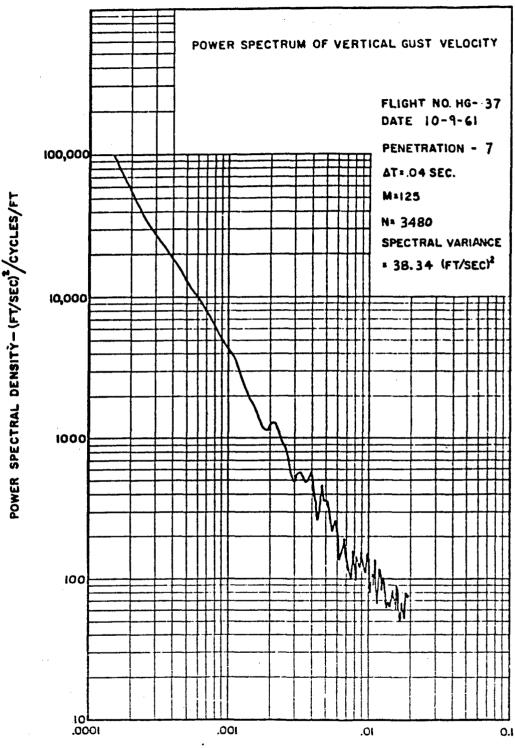
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INVERSE WAVELENGTH-CYCLES/FT



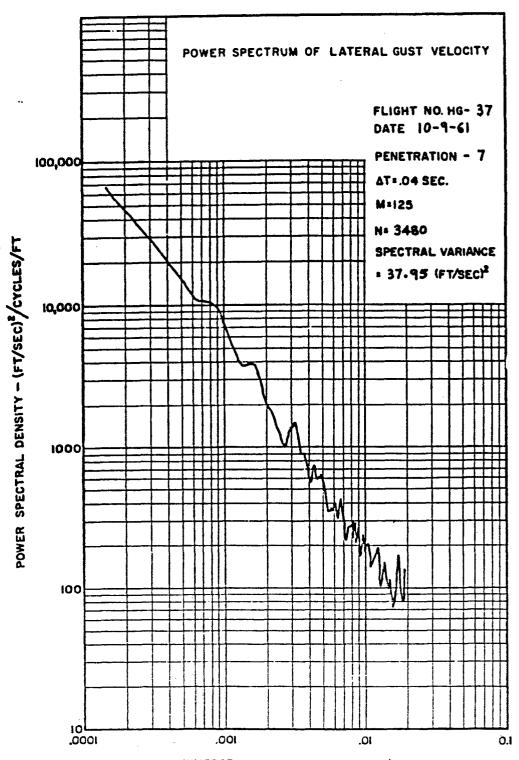
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INVERSE WAVELENGTH-CYCLES/FT



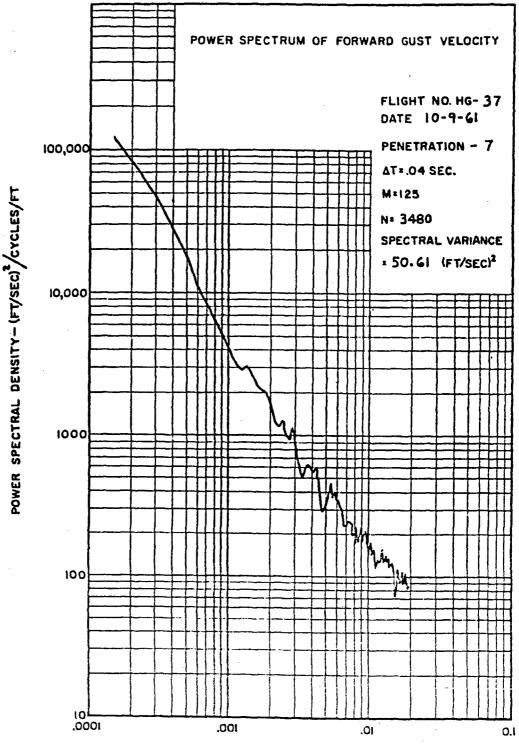
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INVERSE WAVELENGTH-CYCLES/FT



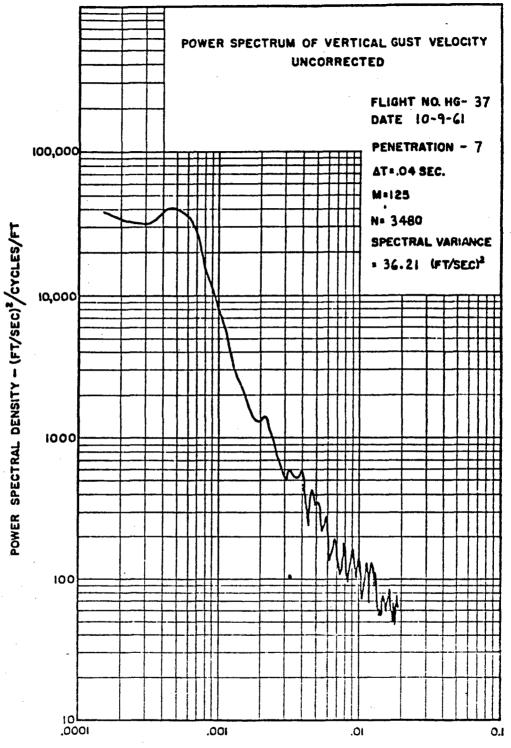
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INVERSE WAVELENGTH-CYCLES/FT



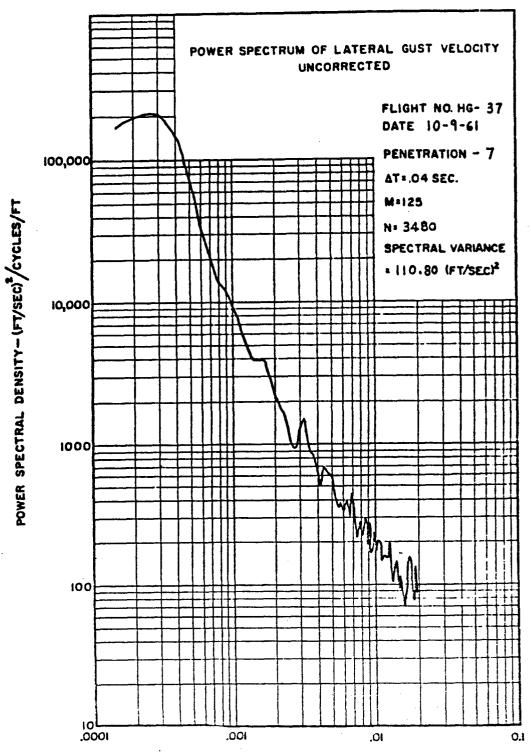
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INVERSE WAVELENGTH-CYCLES/FT



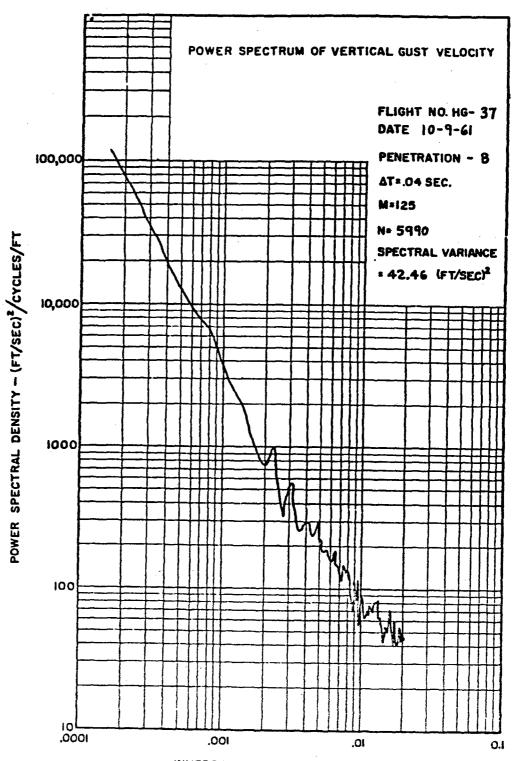
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INVERSE WAVELENGTH-CYCLES/FT



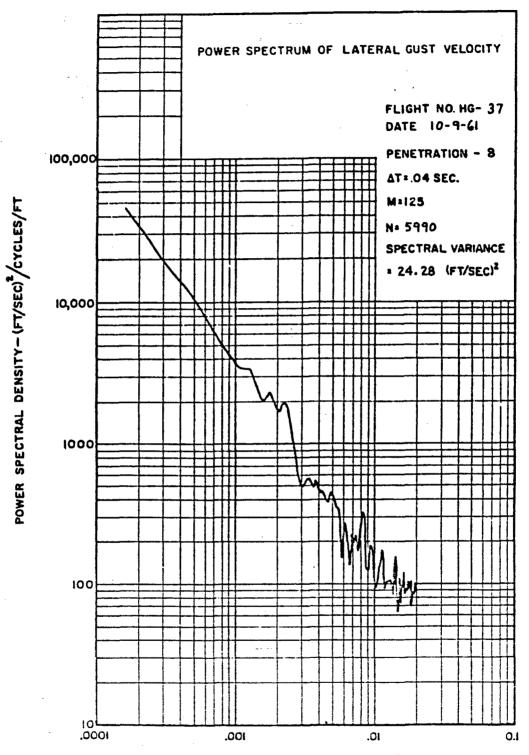
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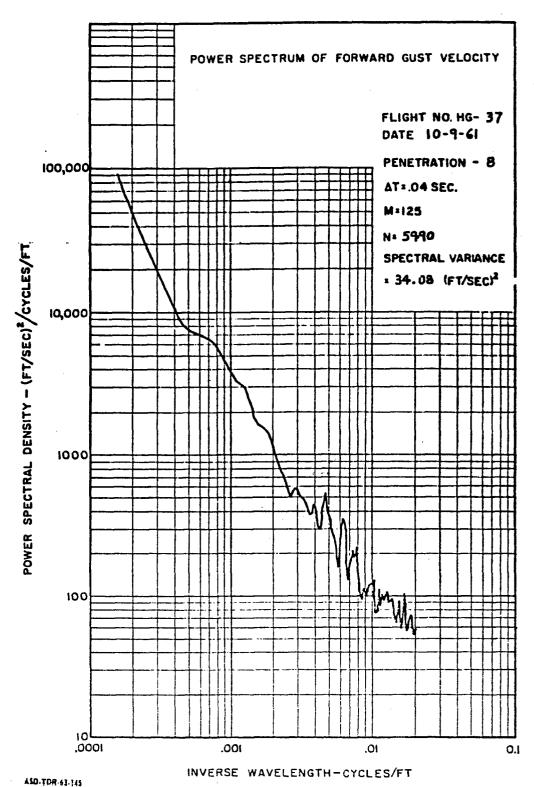
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INVERSE WAVELENGTH-CYCLES/FT

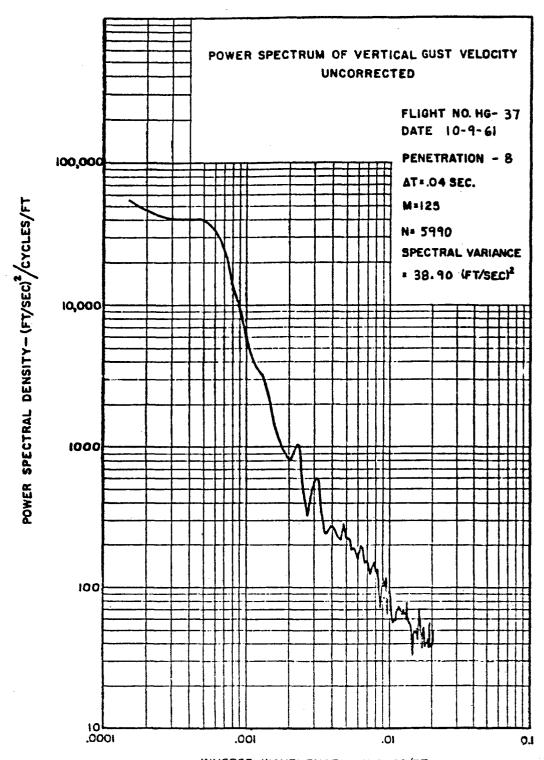


ASD-TDR-63-145 YDLUME 15

INVERSE WAVELENGTH-CYCLES/FT

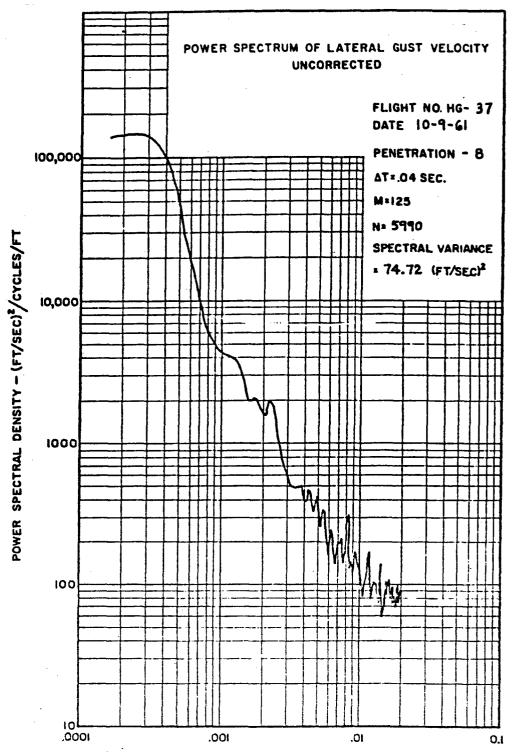


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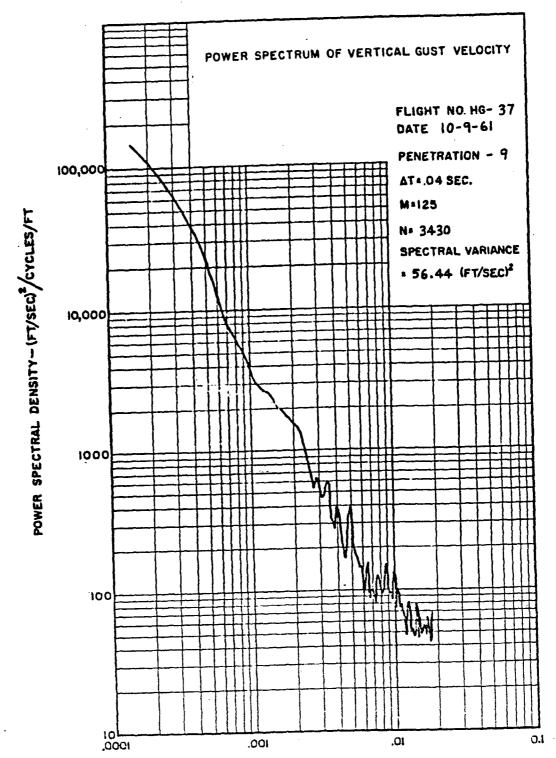
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INVERSE WAVELENGTH-CYCLES/FT



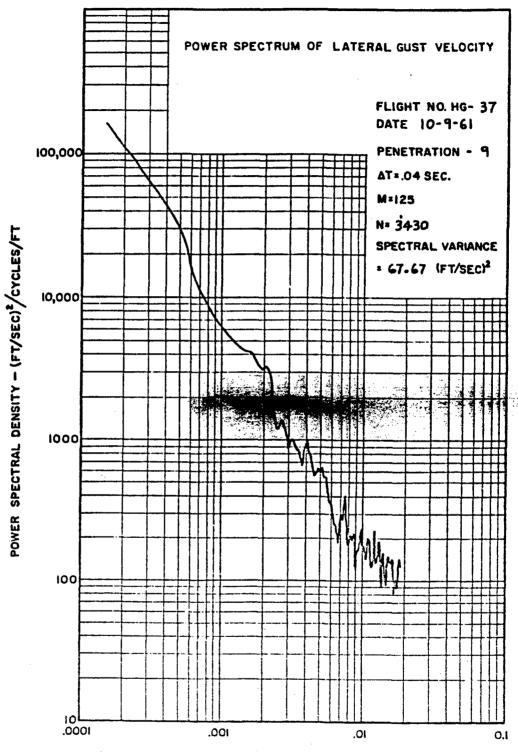
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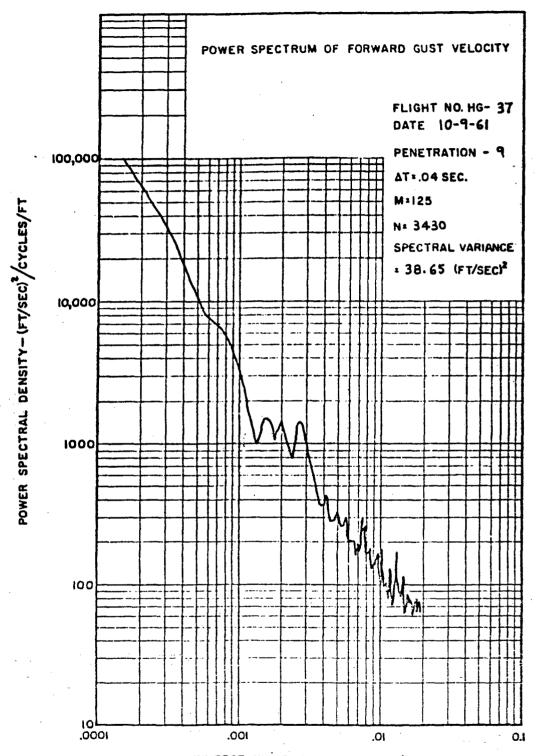
INVERSE WAVELENGTH-CYCLES/FT

ASD-TOR-63-145 YDLUME 11



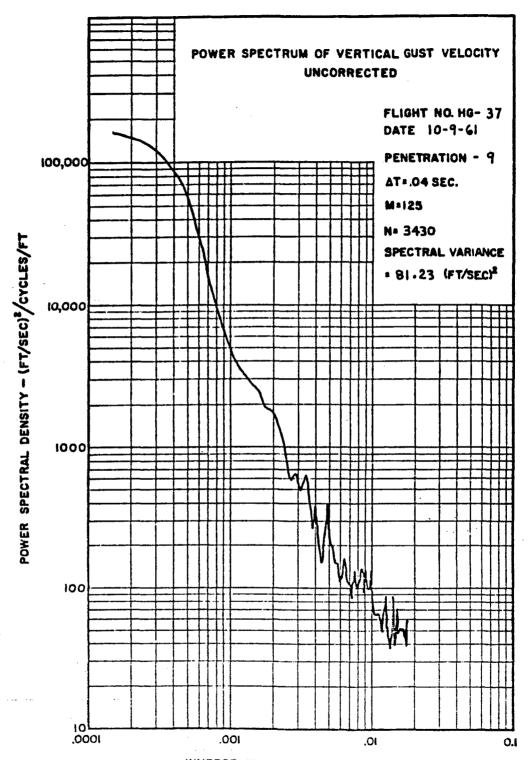
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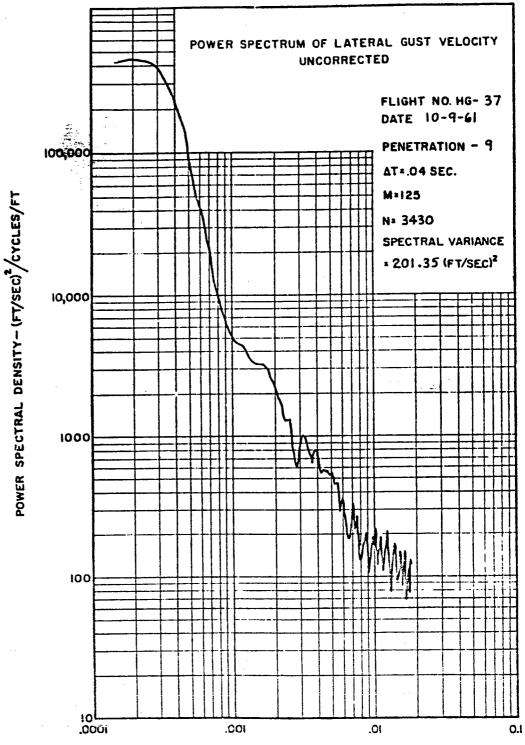
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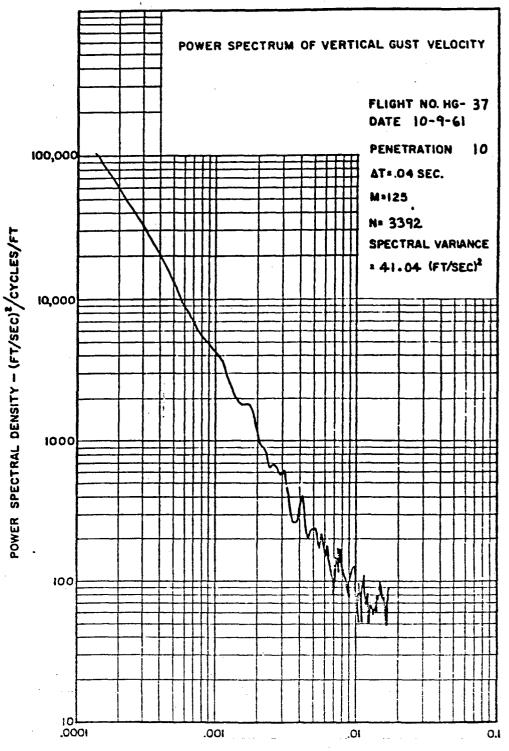
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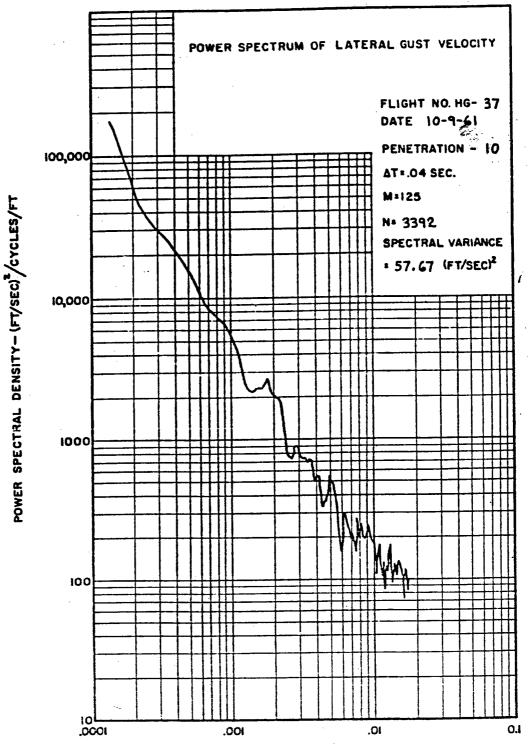
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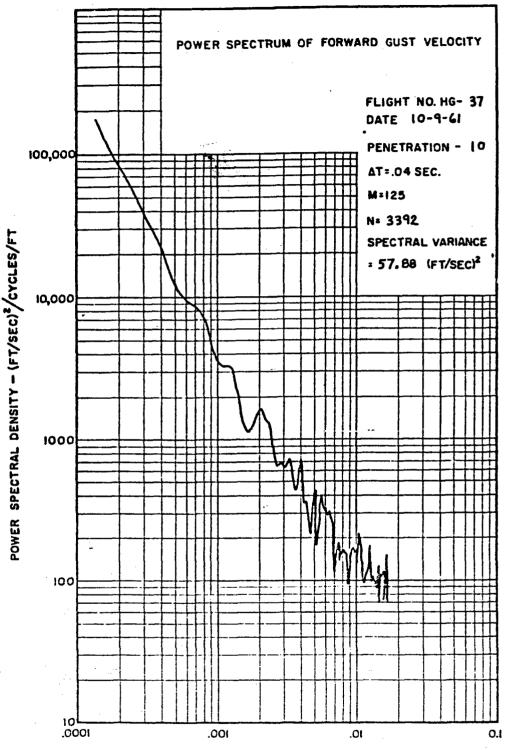
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INVERSE WAVELENGTH-CYCLES/FT



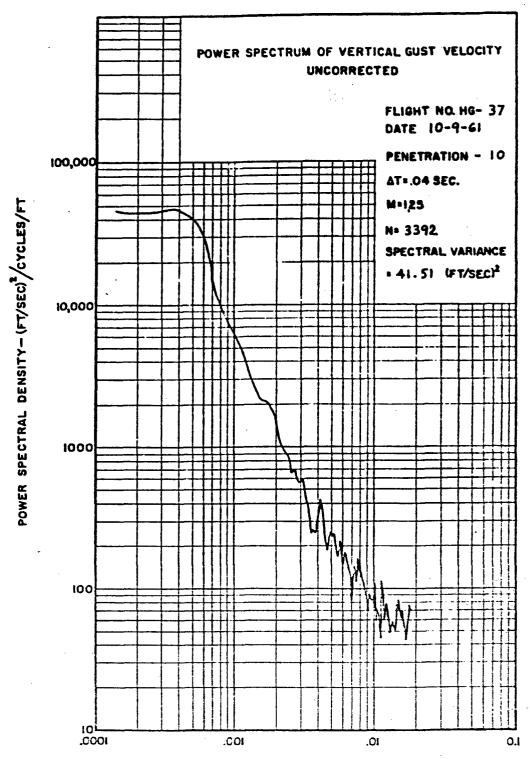
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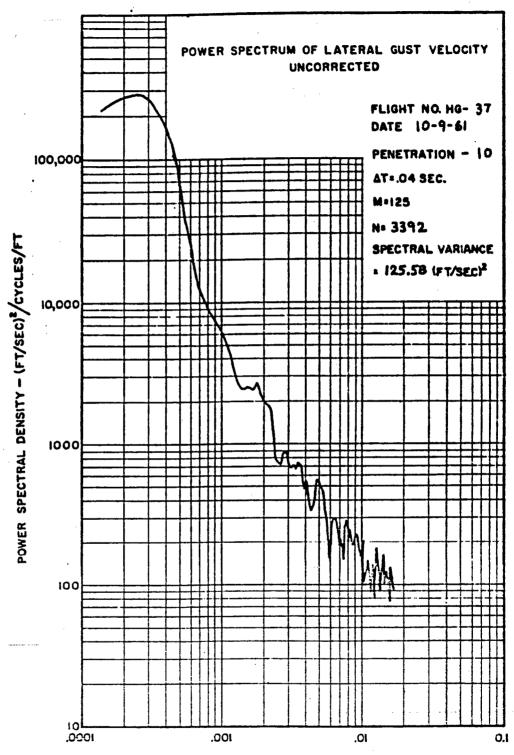


ASD-TOR-43-145 YOLUME 11

INVERSE WAVELENGTH-CYCLES/FT



ASO-TOR AS-145 YDLUAE 11 INVERSE WAVELENGTH-CYCLES/FT



ASD-TDR-43-145

INVERSE WAVELENGTH-CYCLES/FT

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